

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
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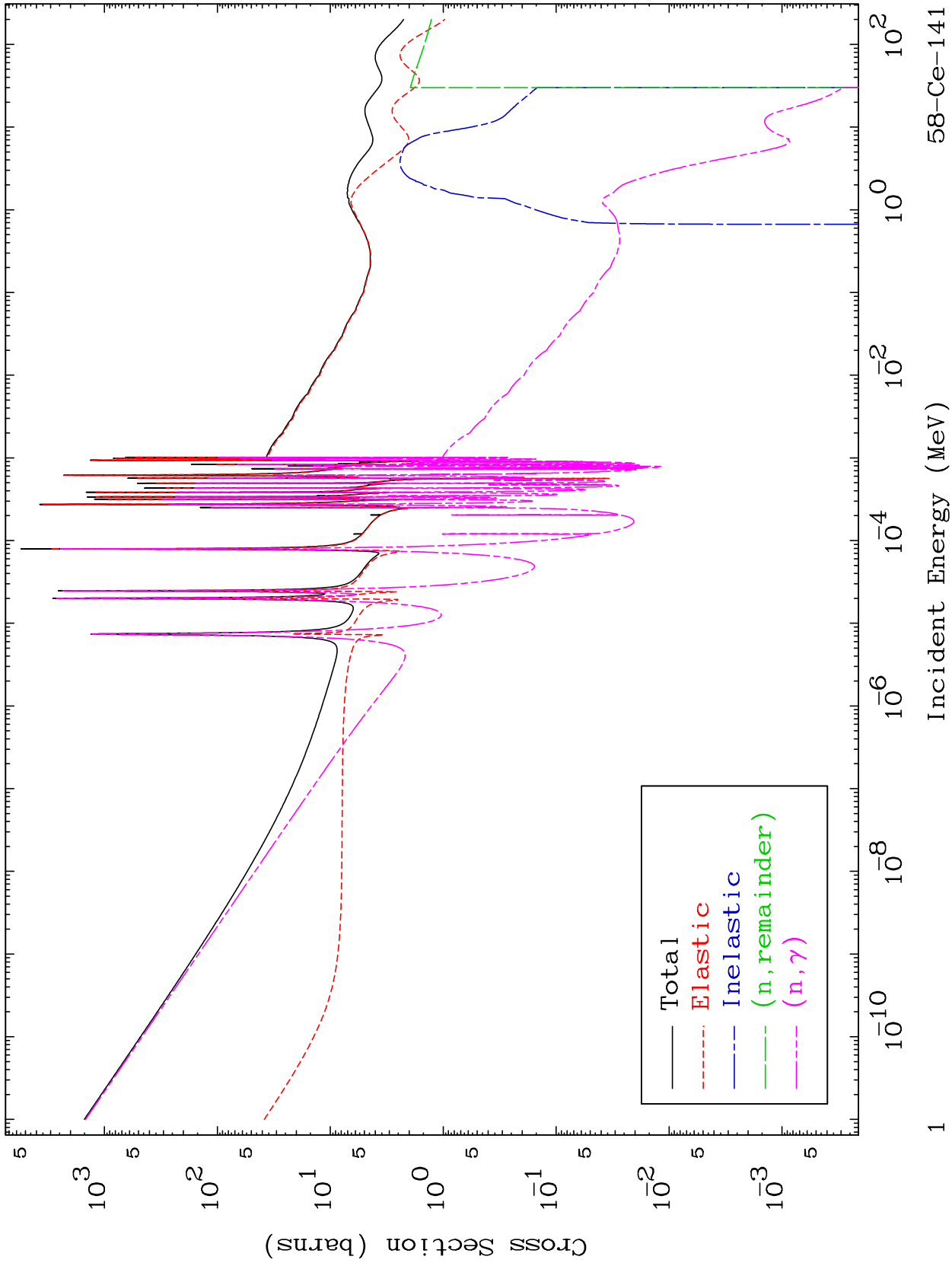
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5840

Major
293 Kelvin Cross Sections

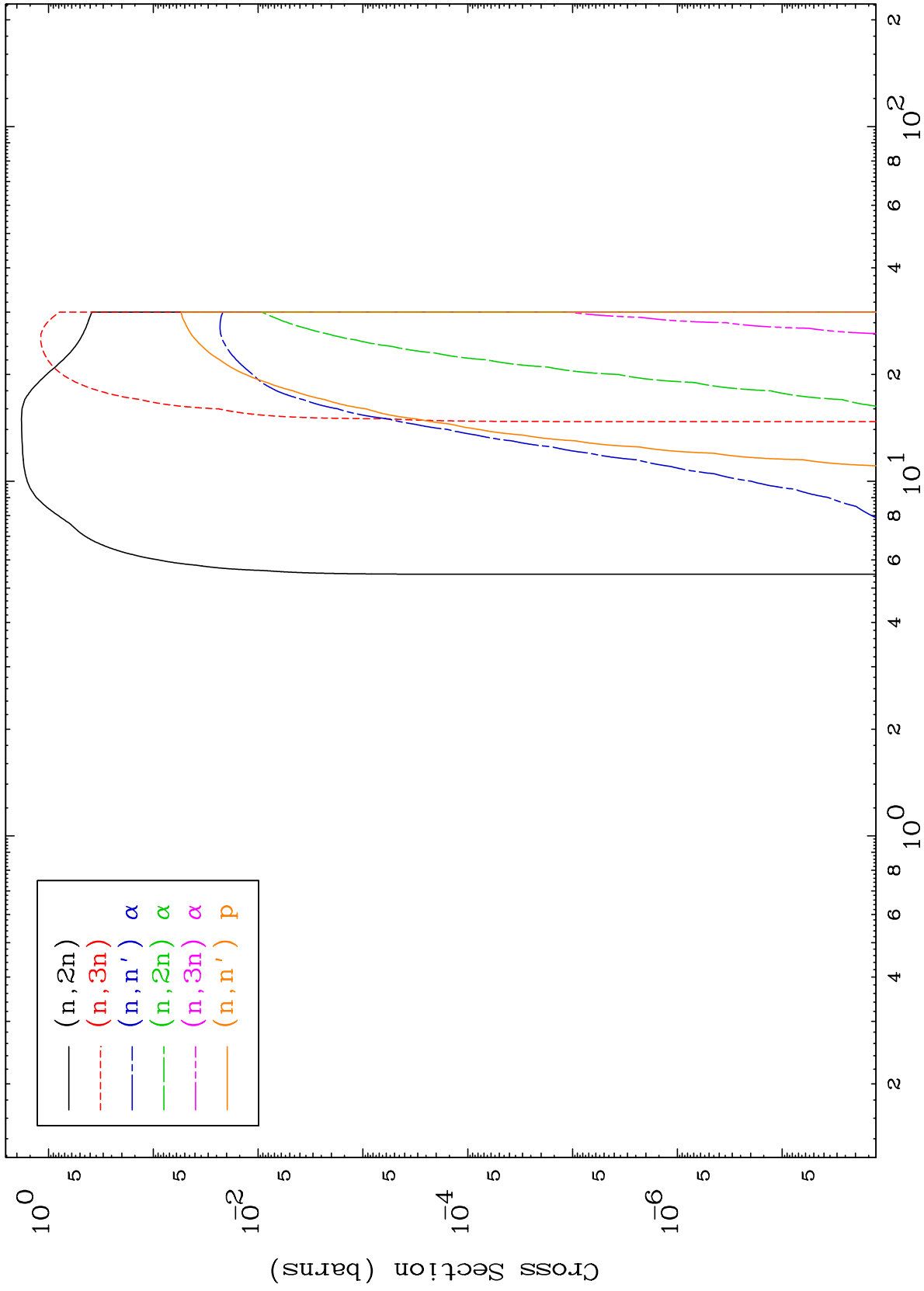
58-Ce-141



MAT 5840

Neutron Production
293 Kelvin Cross Sections

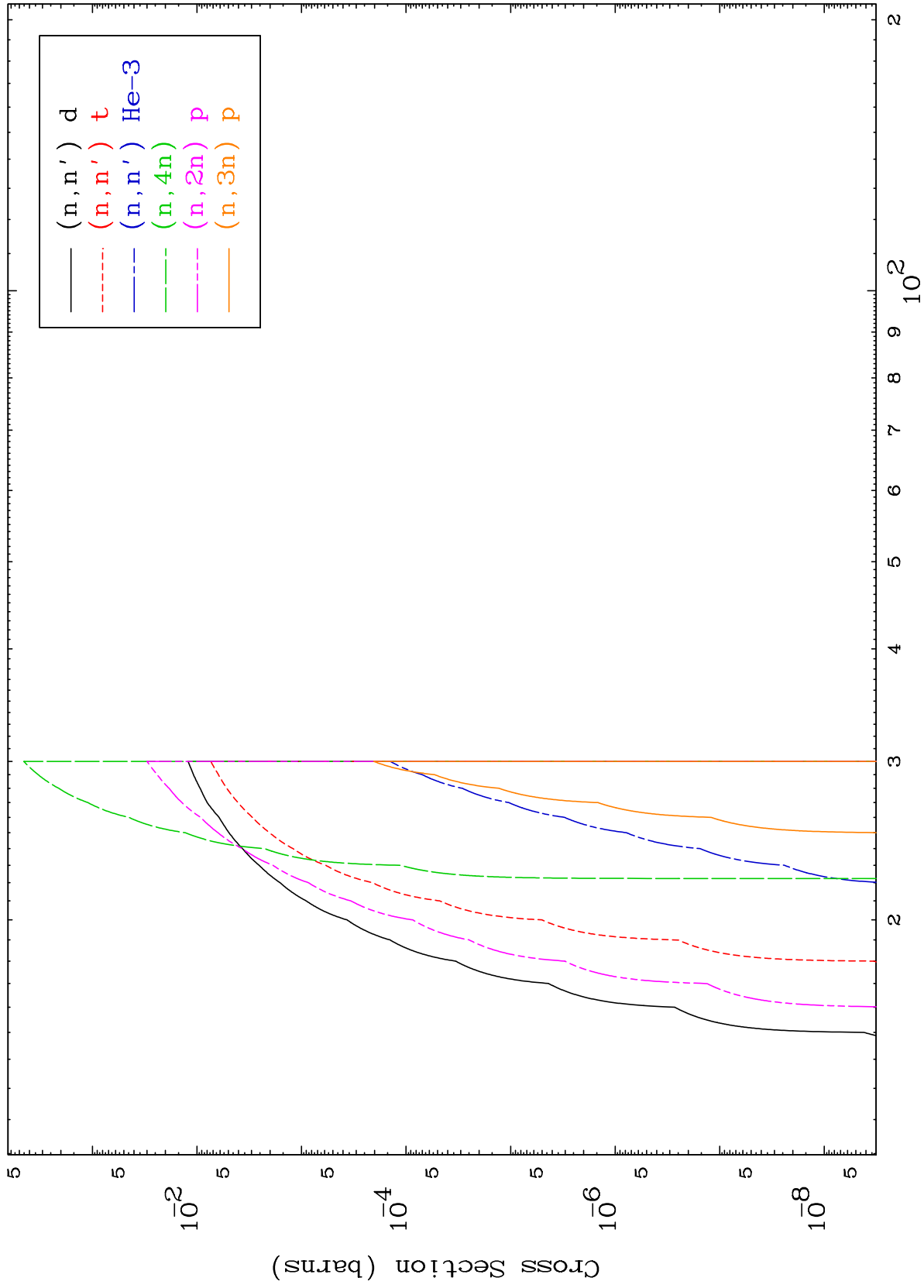
58-Ce-141



2

Incident Energy (MeV)

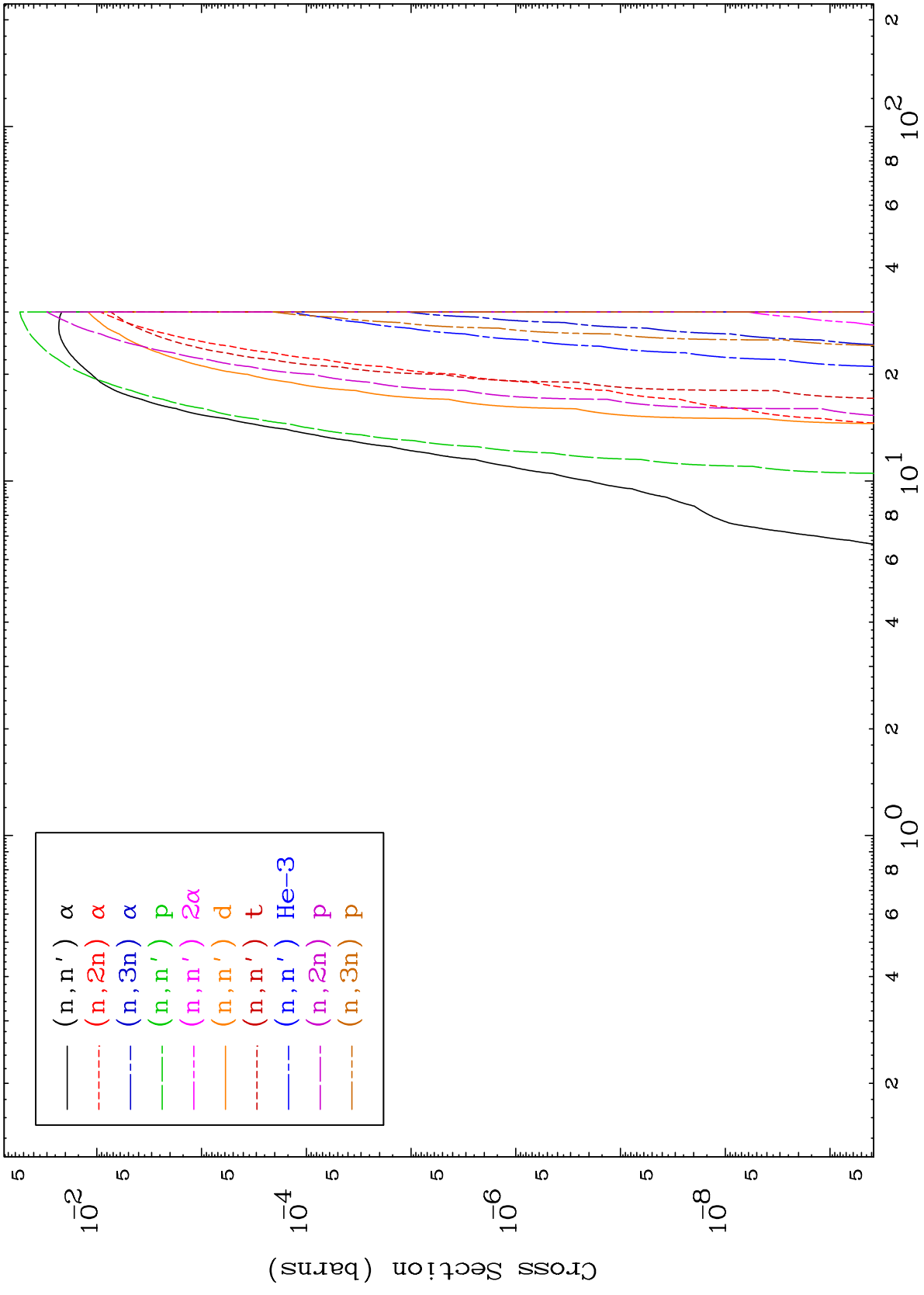
58-Ce-141



MAT 5840

293 Kelvin Cross Sections

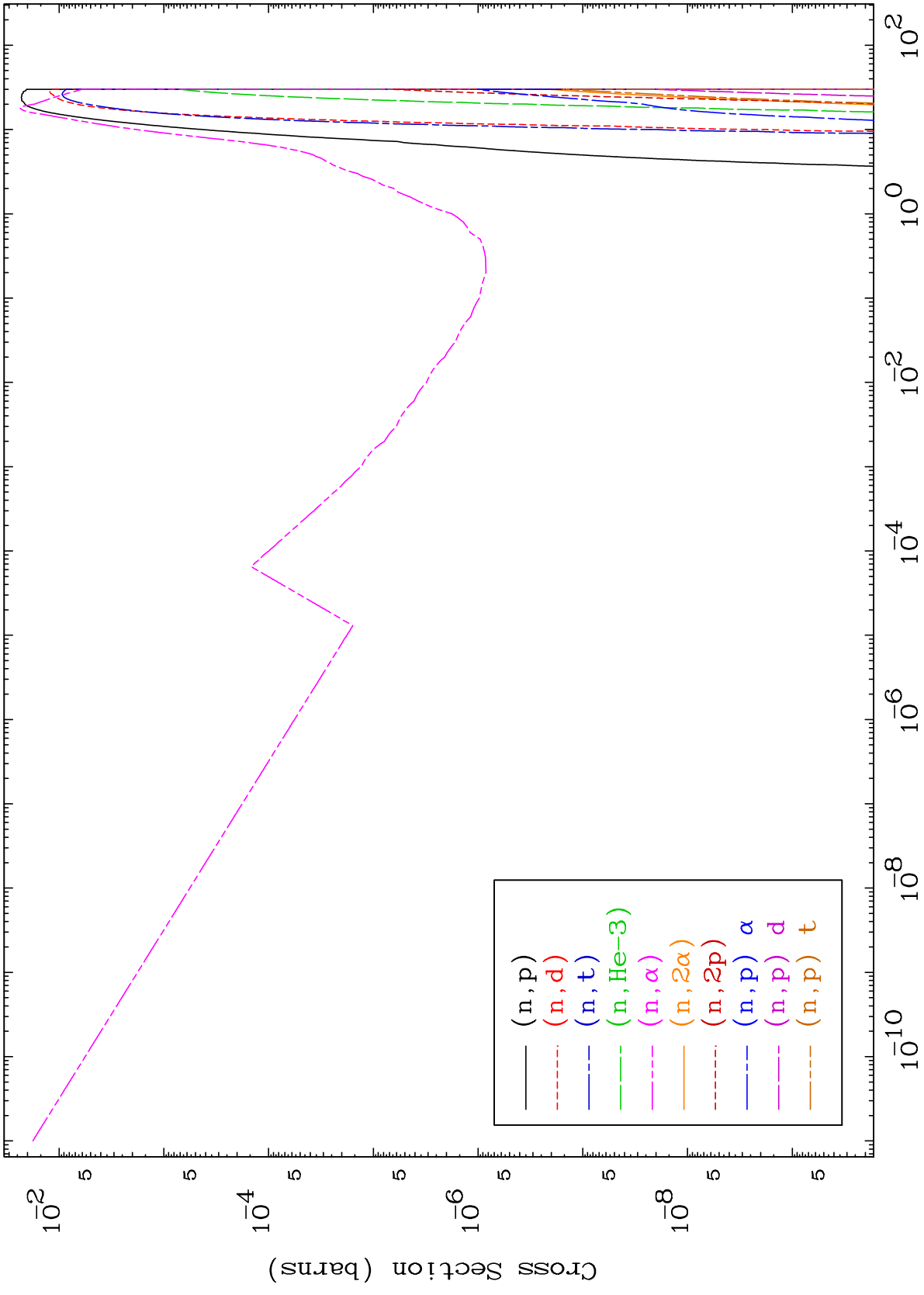
58-Ce-141



MAT 5840

293 Kelvin Cross Sections

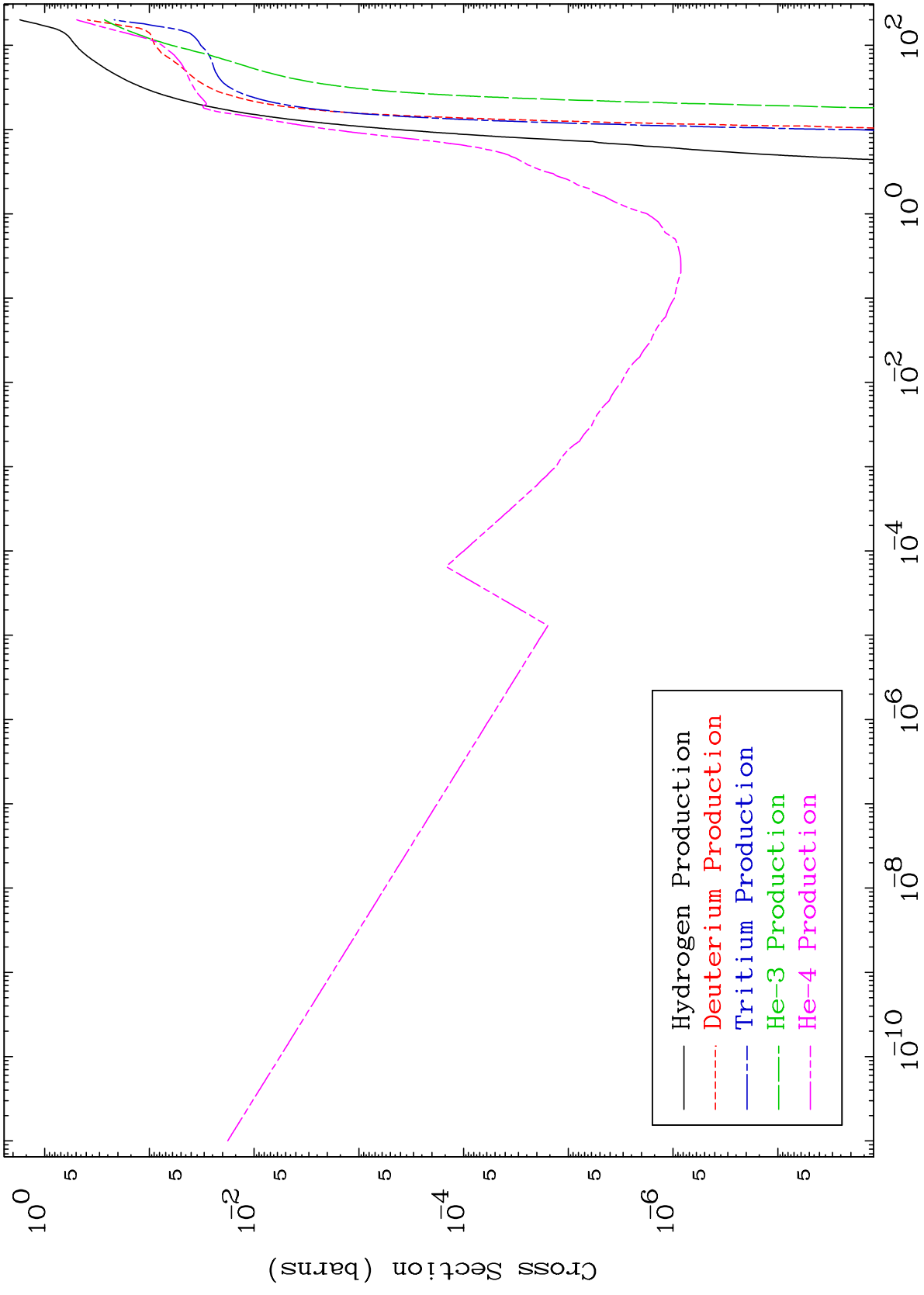
58-Ce-141



MAT 5840

Particle Production
293 Kelvin Cross Sections

58-Ce-141



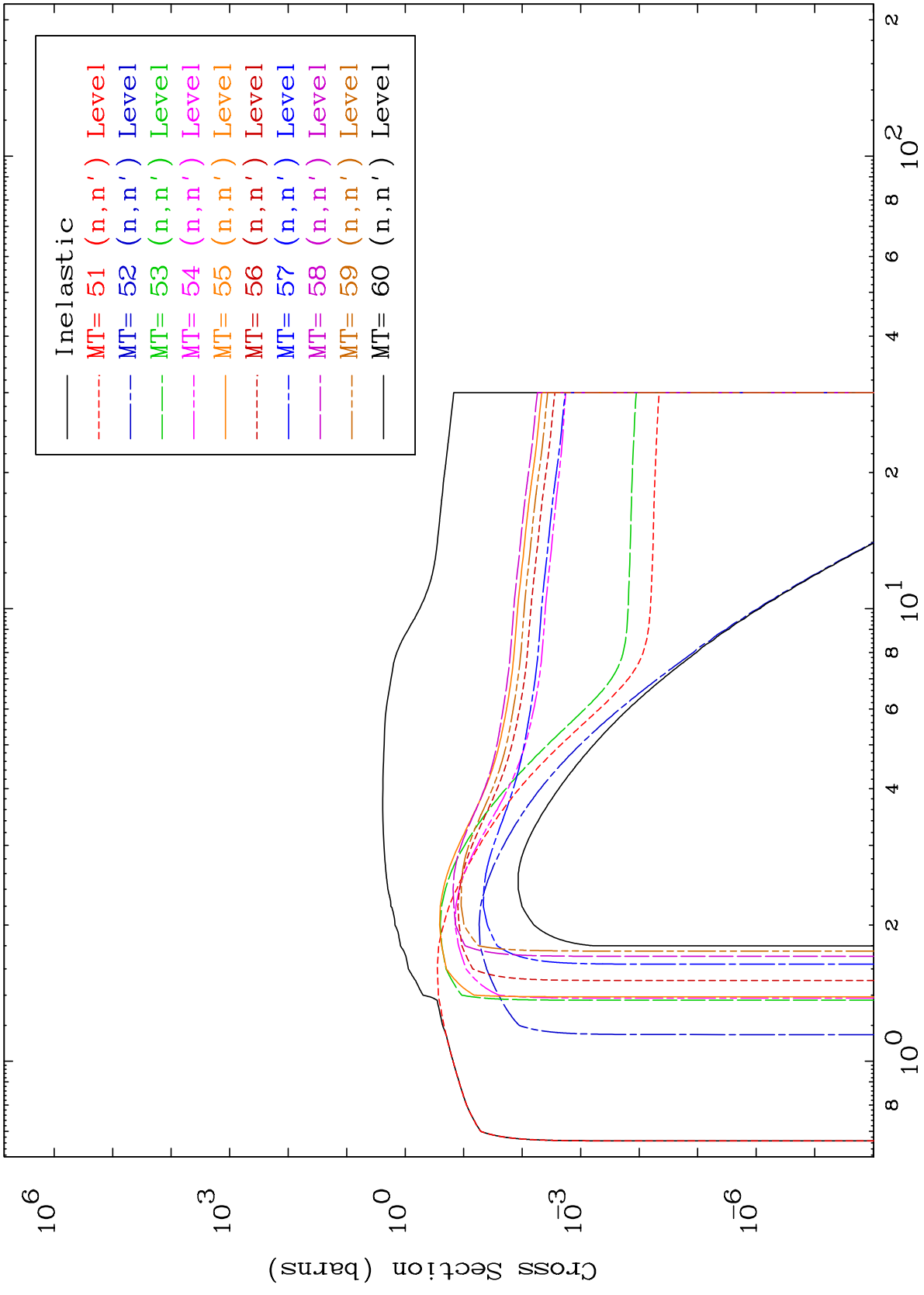
58-Ce-141

MAT 5840

(n,n') Level

58-Ce-141

293 Kelvin Cross Sections



7

Incident Energy (MeV)

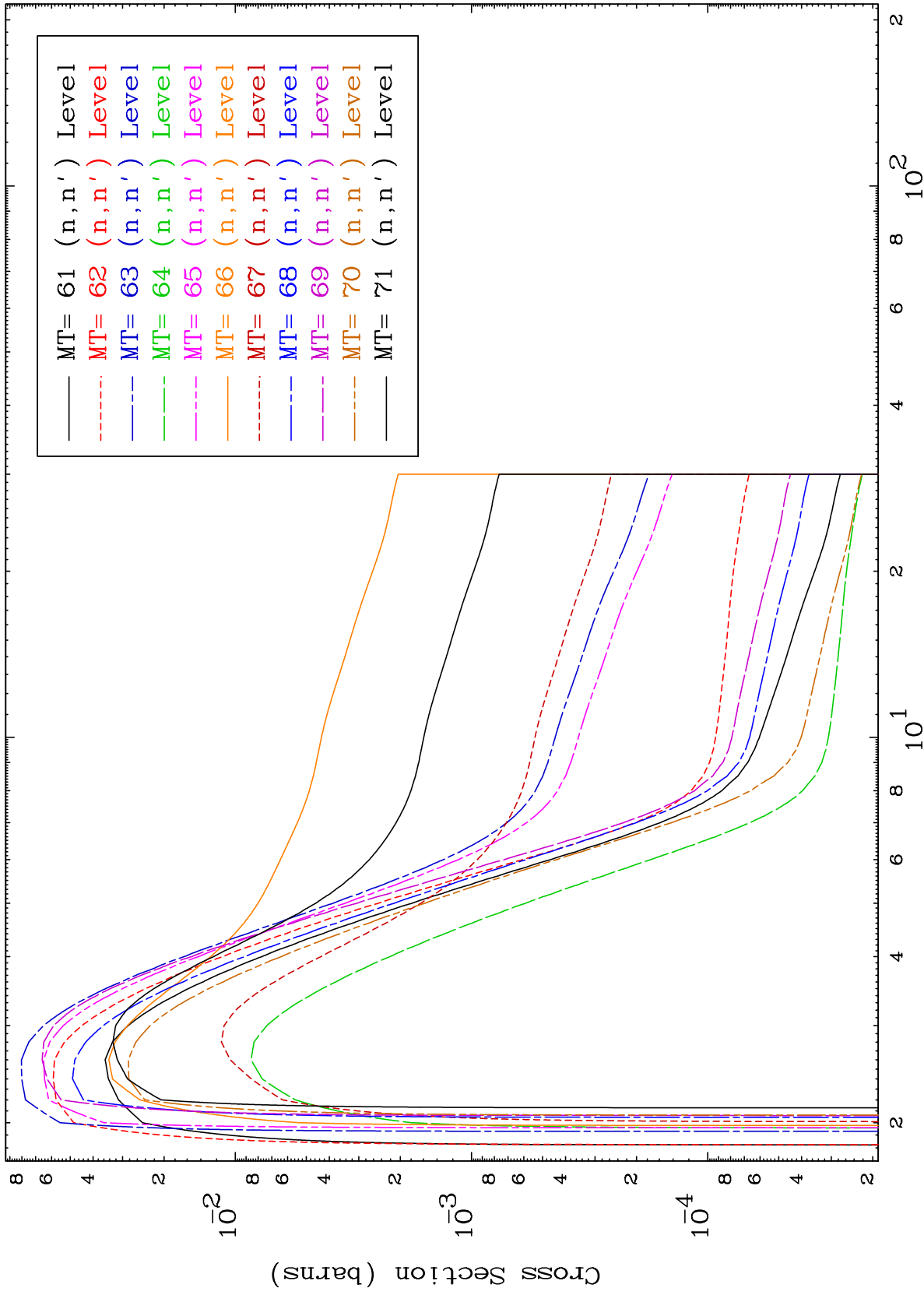
58-Ce-141

MAT 5840

(n,n') Level

58-Ce-141

293 Kelvin Cross Sections



8

Incident Energy (MeV)

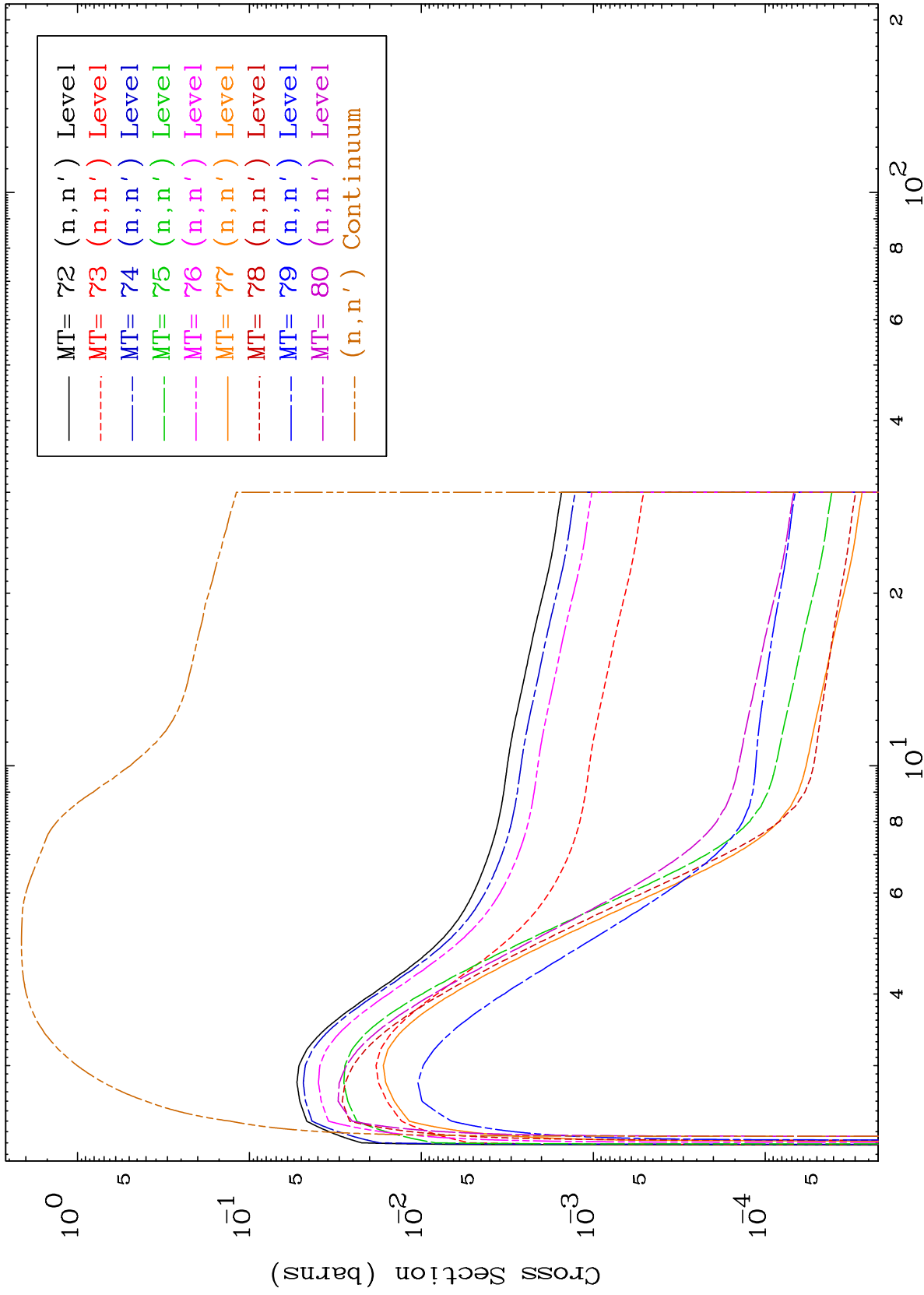
58-Ce-141

MAT 5840

(n,n') Level

58-Ce-141

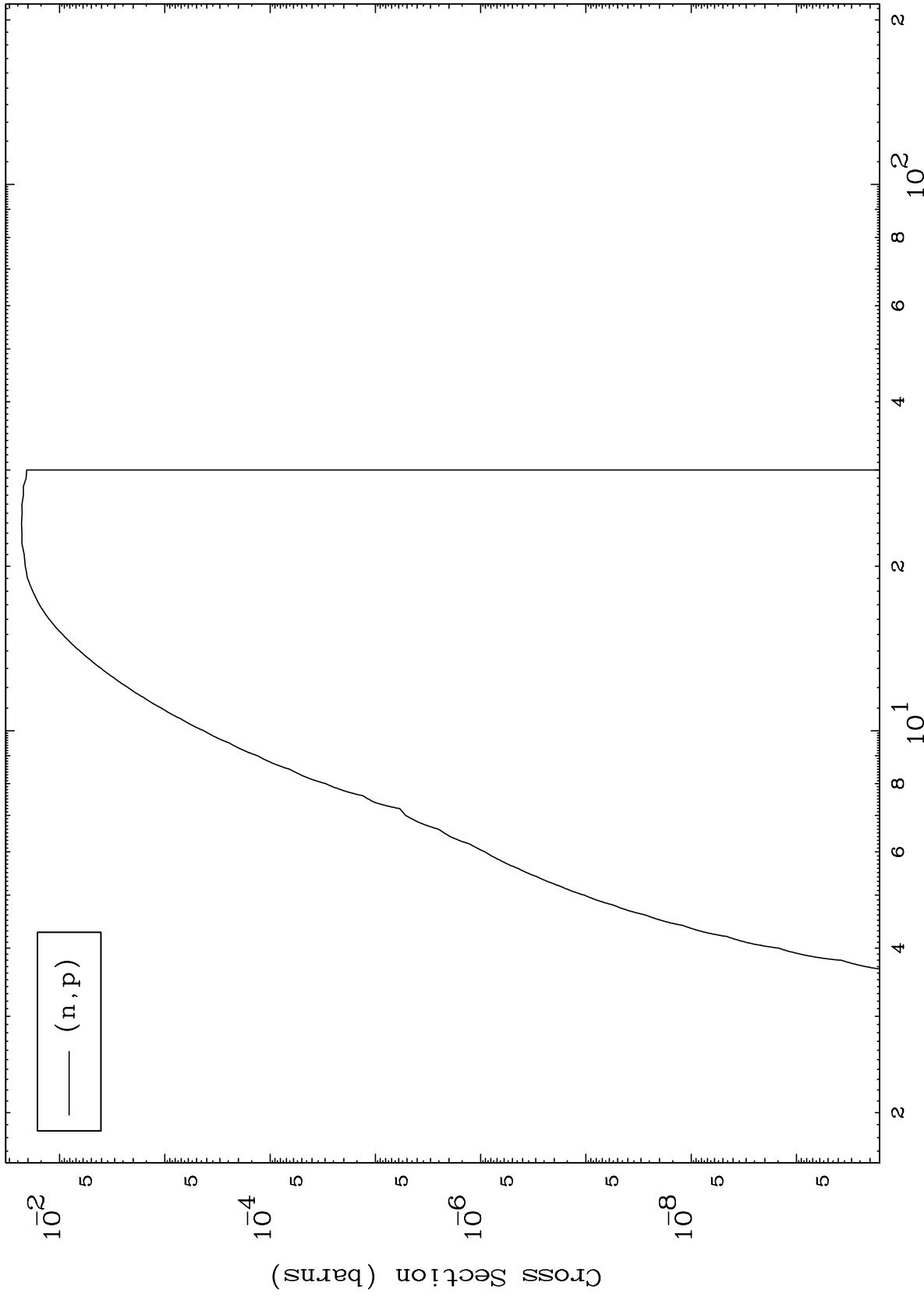
293 Kelvin Cross Sections



MAT 5840

(n,p) Levels
293 Kelvin Cross Sections

58-Ce-141



10

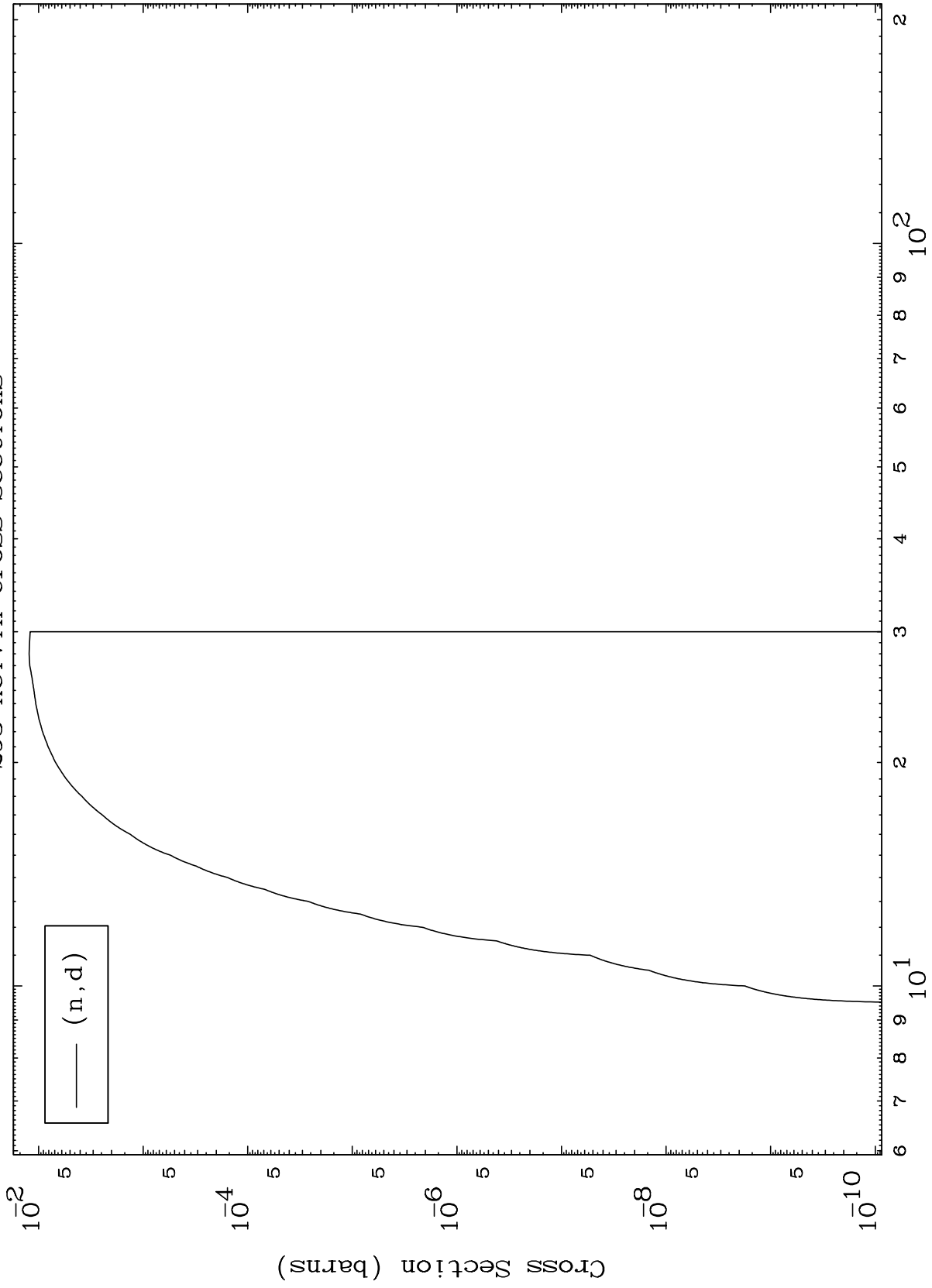
Incident Energy (MeV)

58-Ce-141

MAT 5840

(n,d) Levels
293 Kelvin Cross Sections

58-Ce-141



11

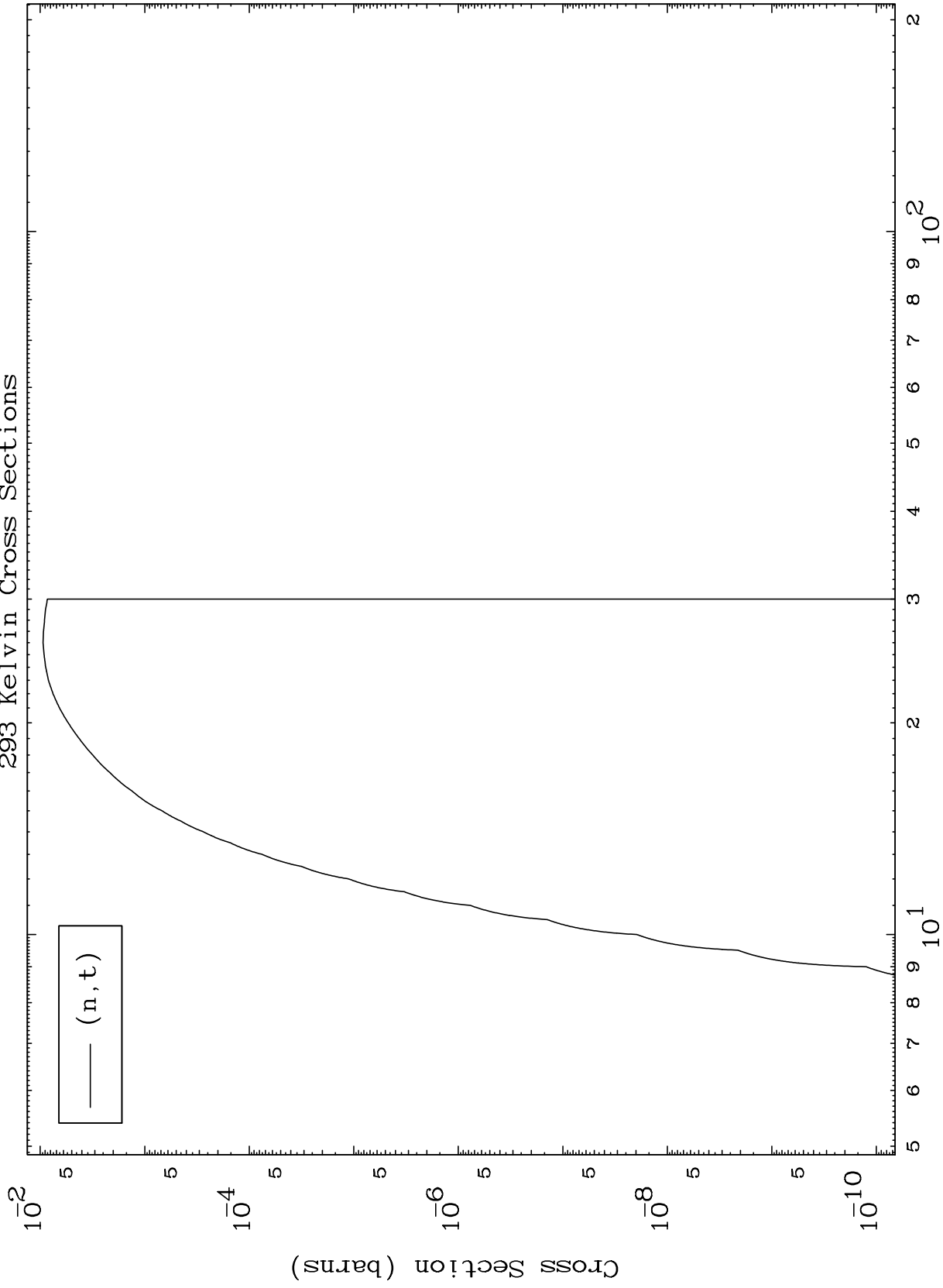
Incident Energy (MeV)

58-Ce-141

MAT 5840

(n,t) Levels
293 Kelvin Cross Sections

58-Ce-141



12

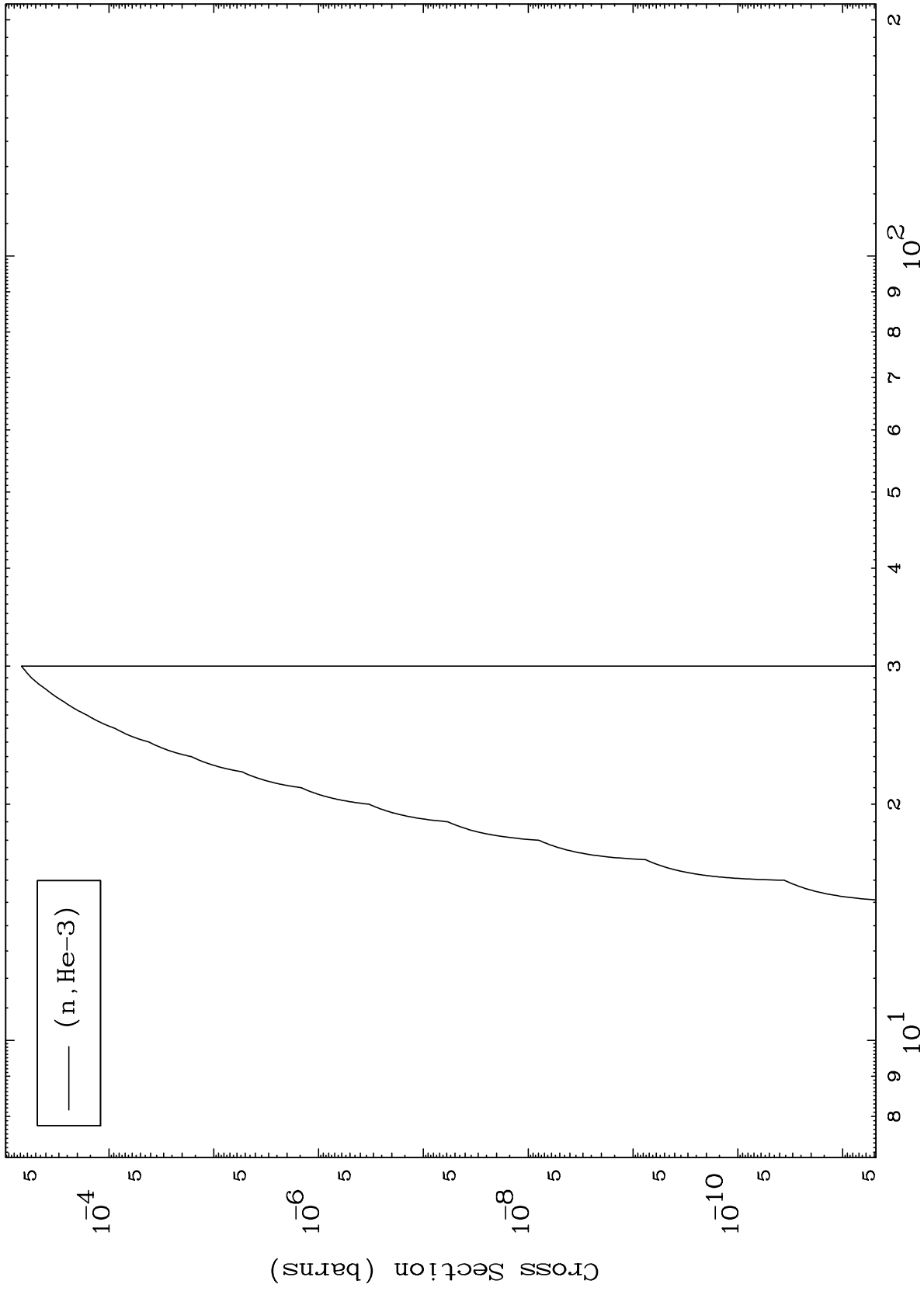
Incident Energy (MeV)

58-Ce-141

MAT 5840

(n,He3) Levels
293 Kelvin Cross Sections

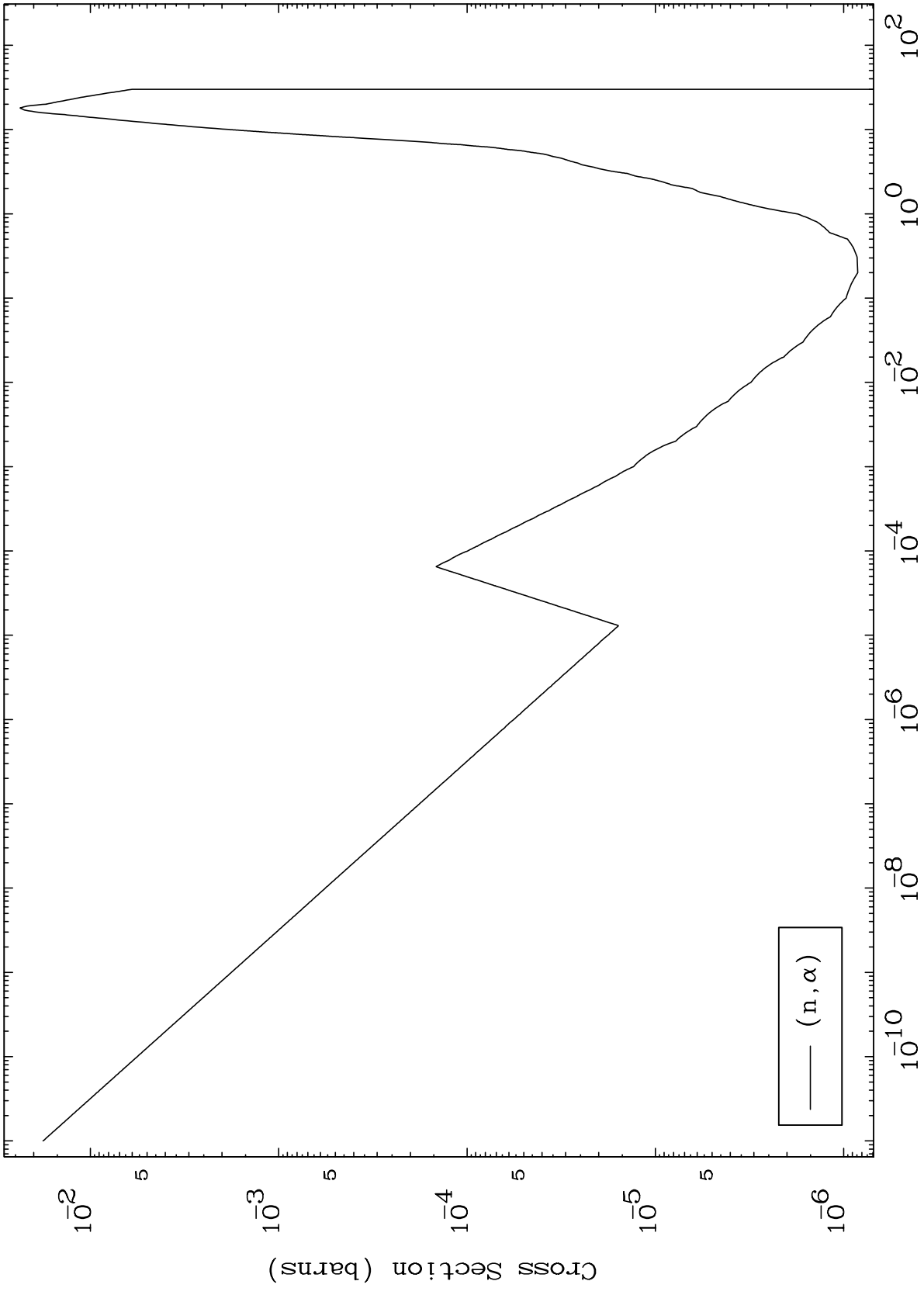
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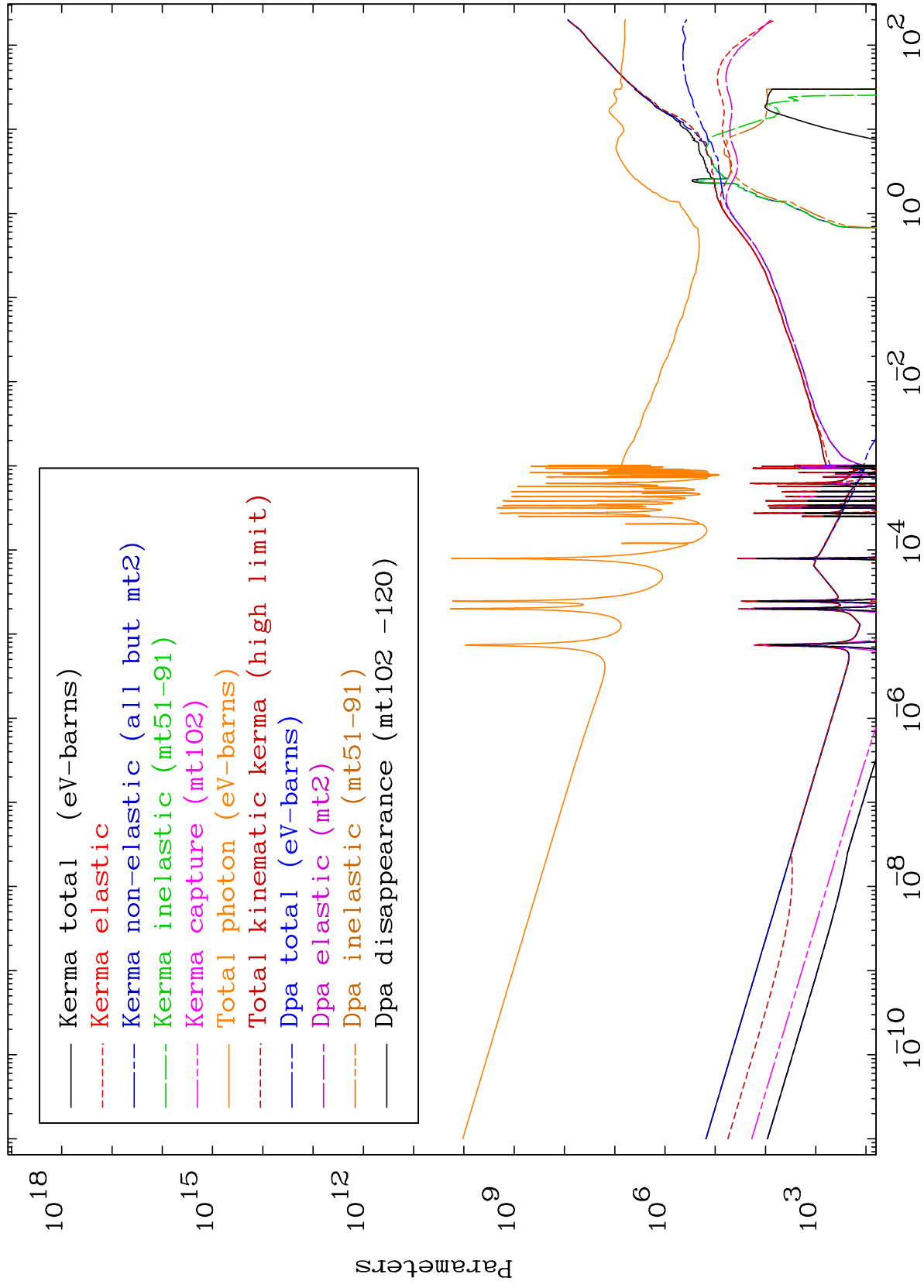


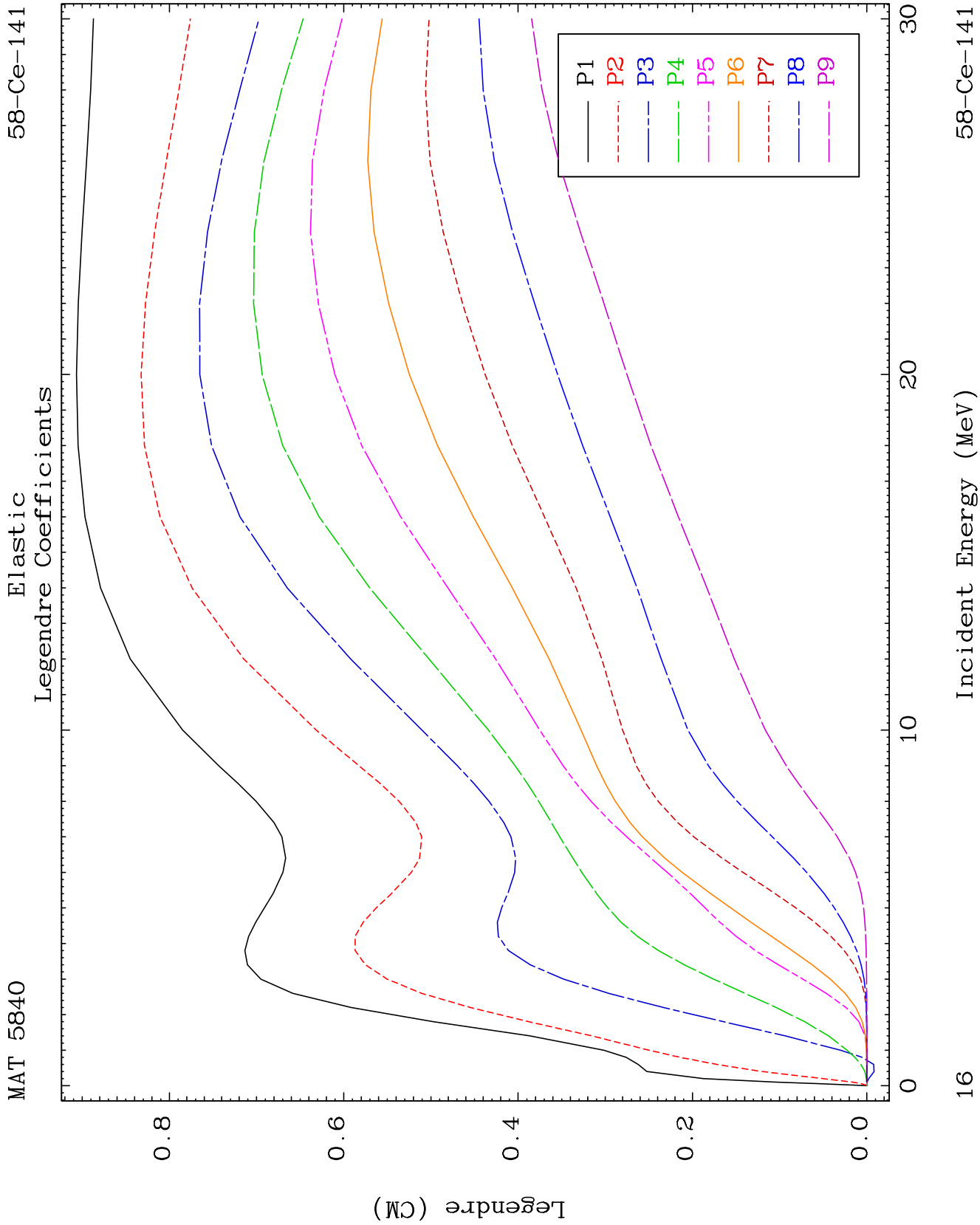
MAT 5840

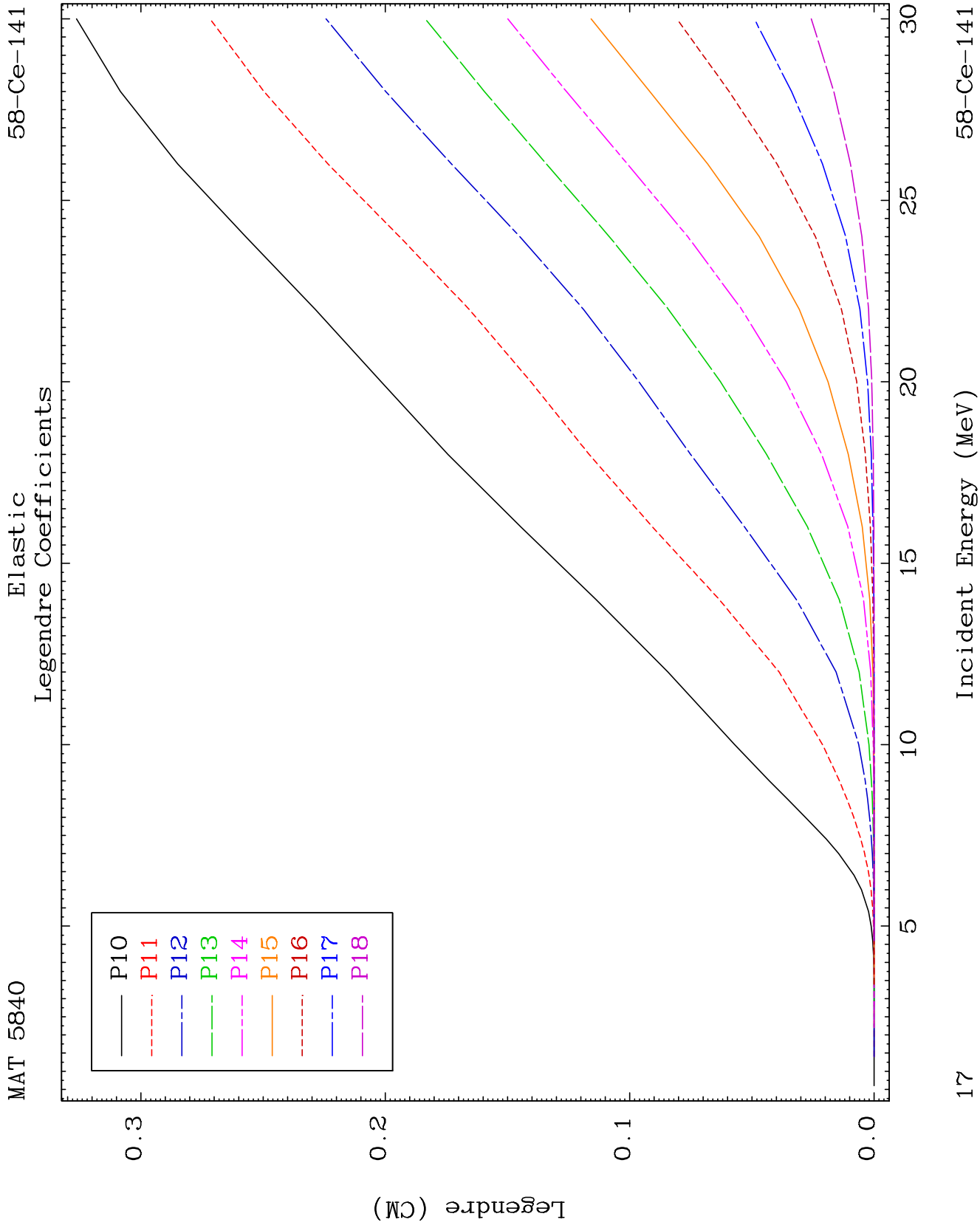
(n,α) Levels
293 Kelvin Cross Sections

58-Ce-141





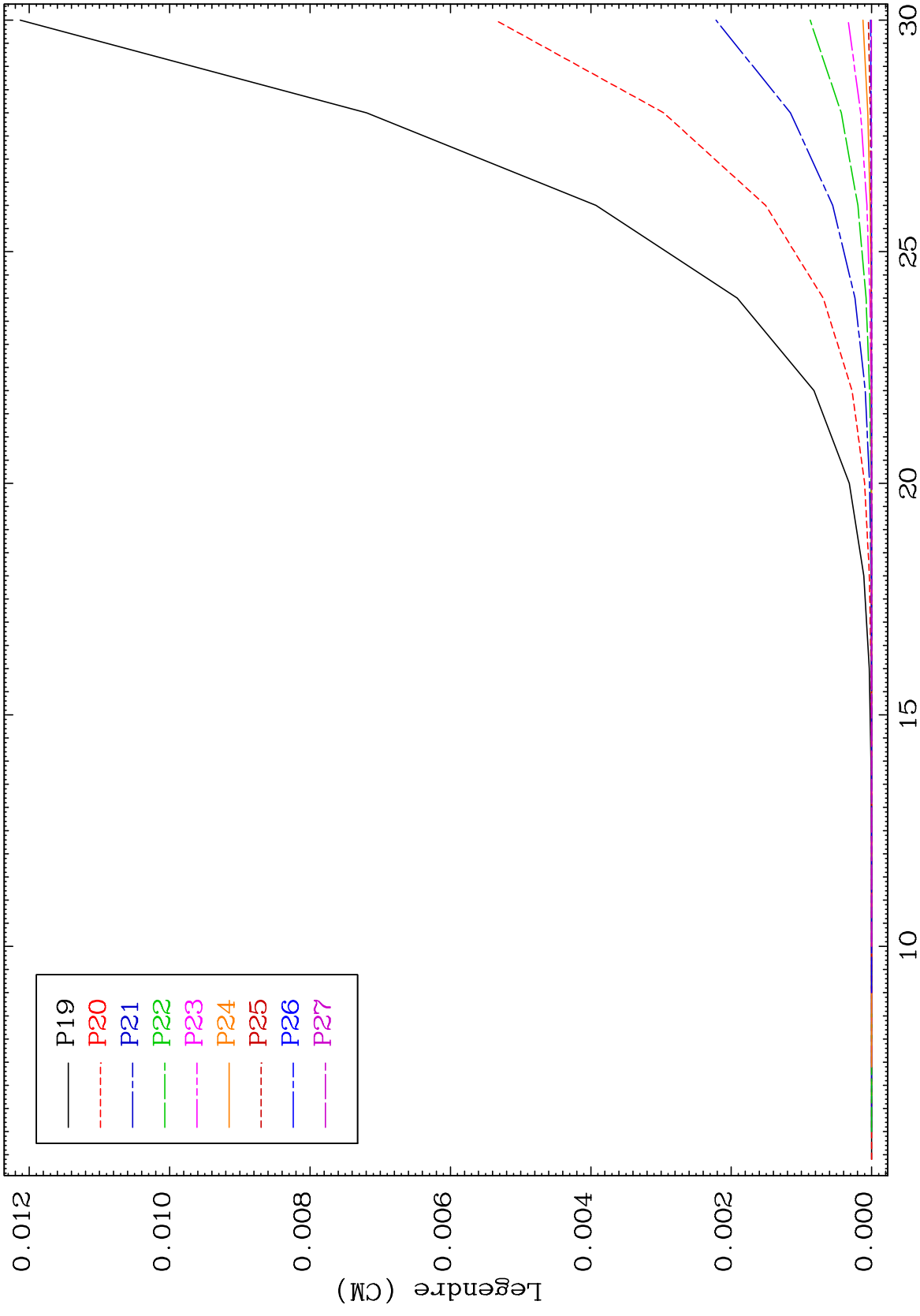




MAT 5840

Elastic Legendre Coefficients

58-Ce-141



18

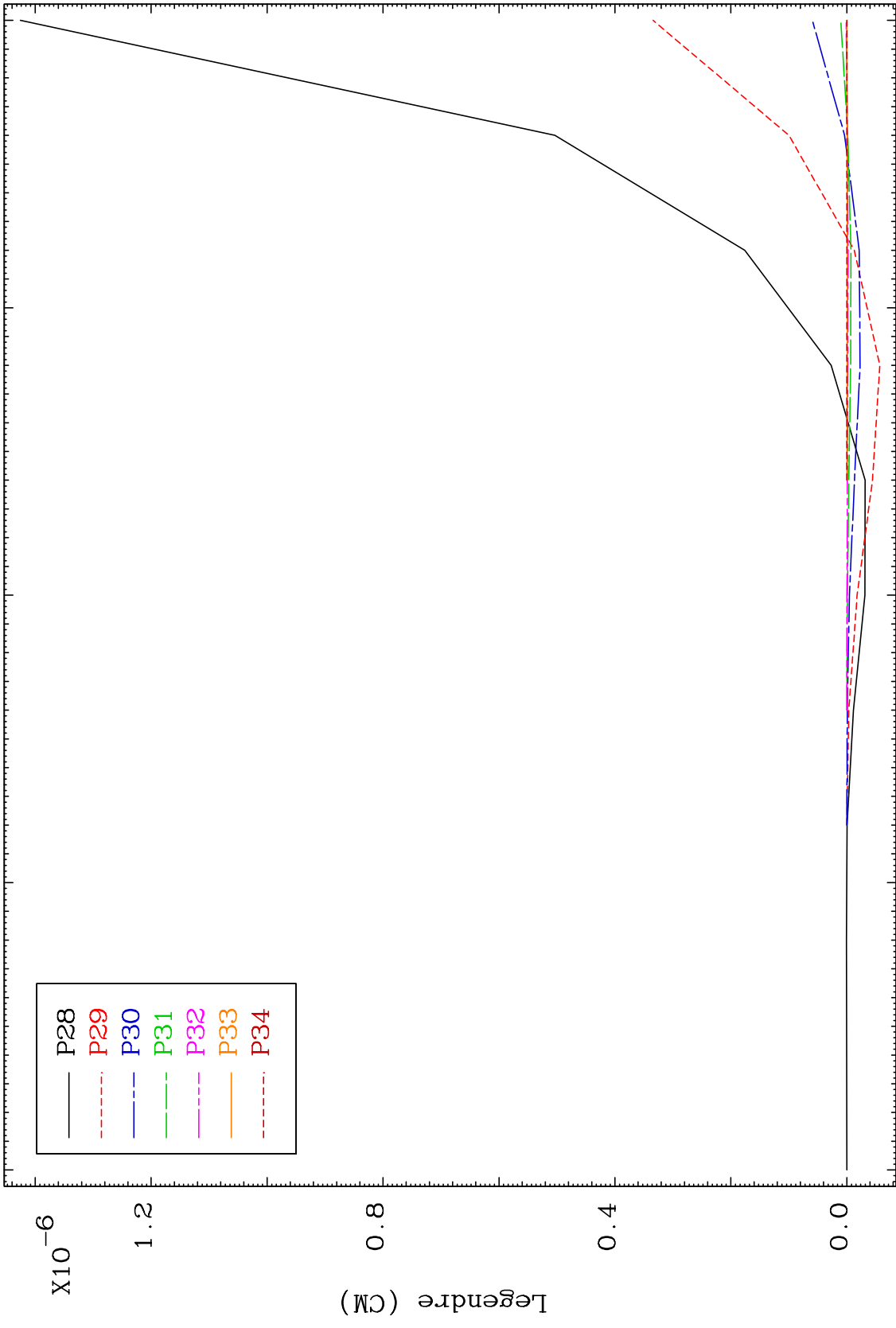
Incident Energy (MeV)

58-Ce-141

MAT 5840

Elastic Legendre Coefficients

58-Ce-141

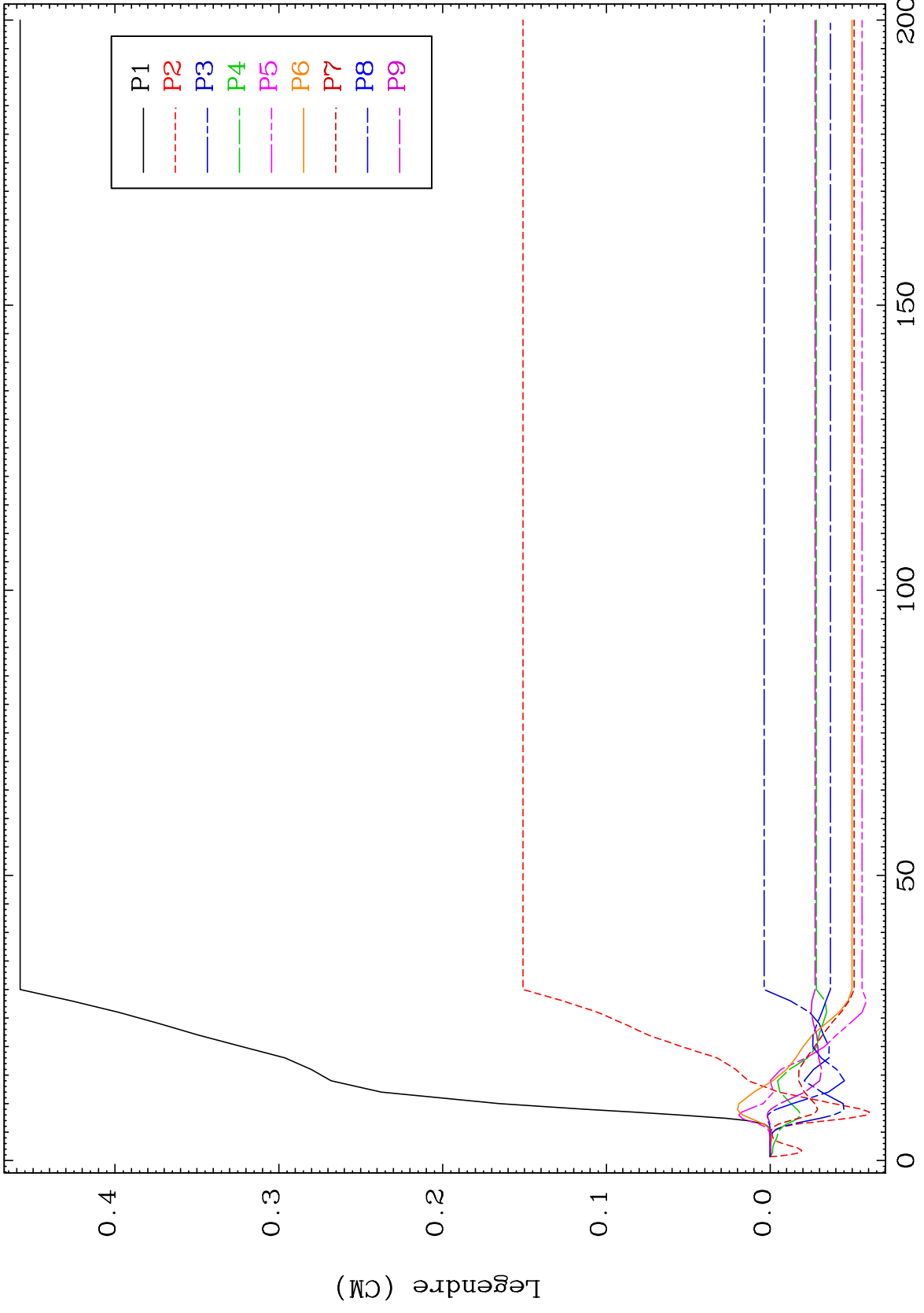


19

Incident Energy (MeV)

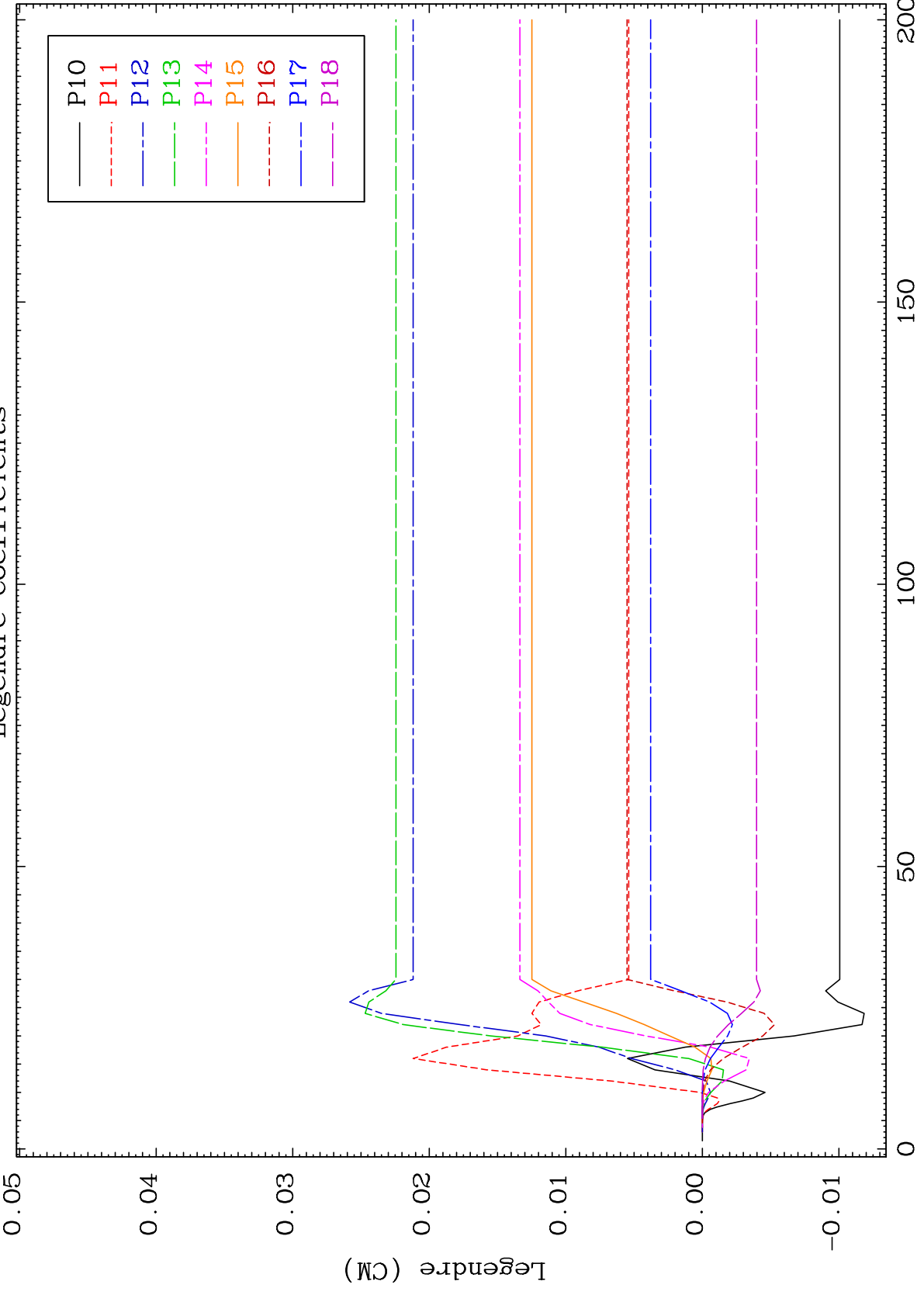
58-Ce-141

MAT 5840 MT= 51 (n,n') Level Legendre Coefficients 58-Ce-141



58-Ce-141

MAT 5840 MT= 51 (n,n') Level Legendre Coefficients 58-Ce-141

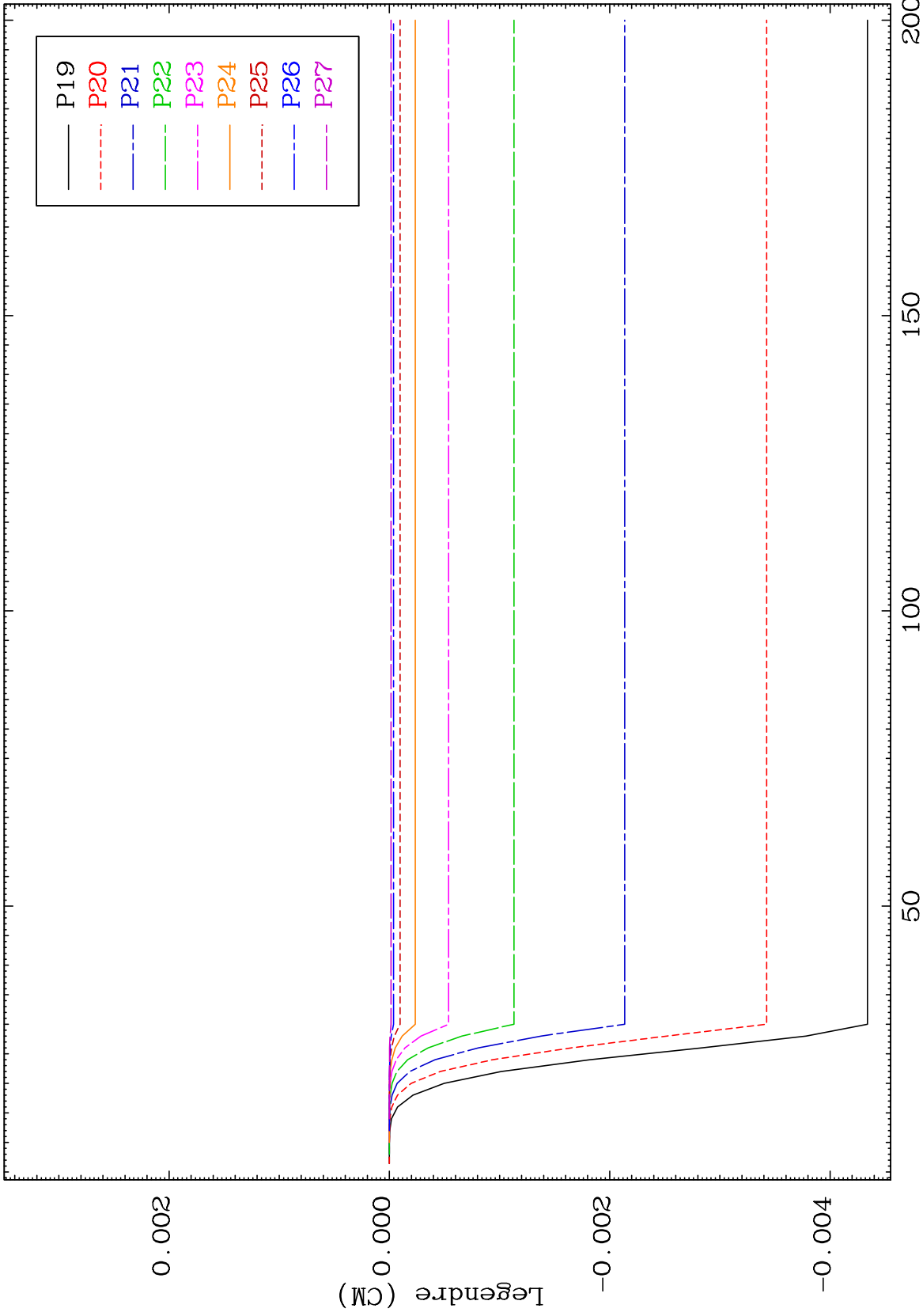


21 58-Ce-141

MAT 5840

MT= 51 (n,n') Level
Legendre Coefficients

58-Ce-141



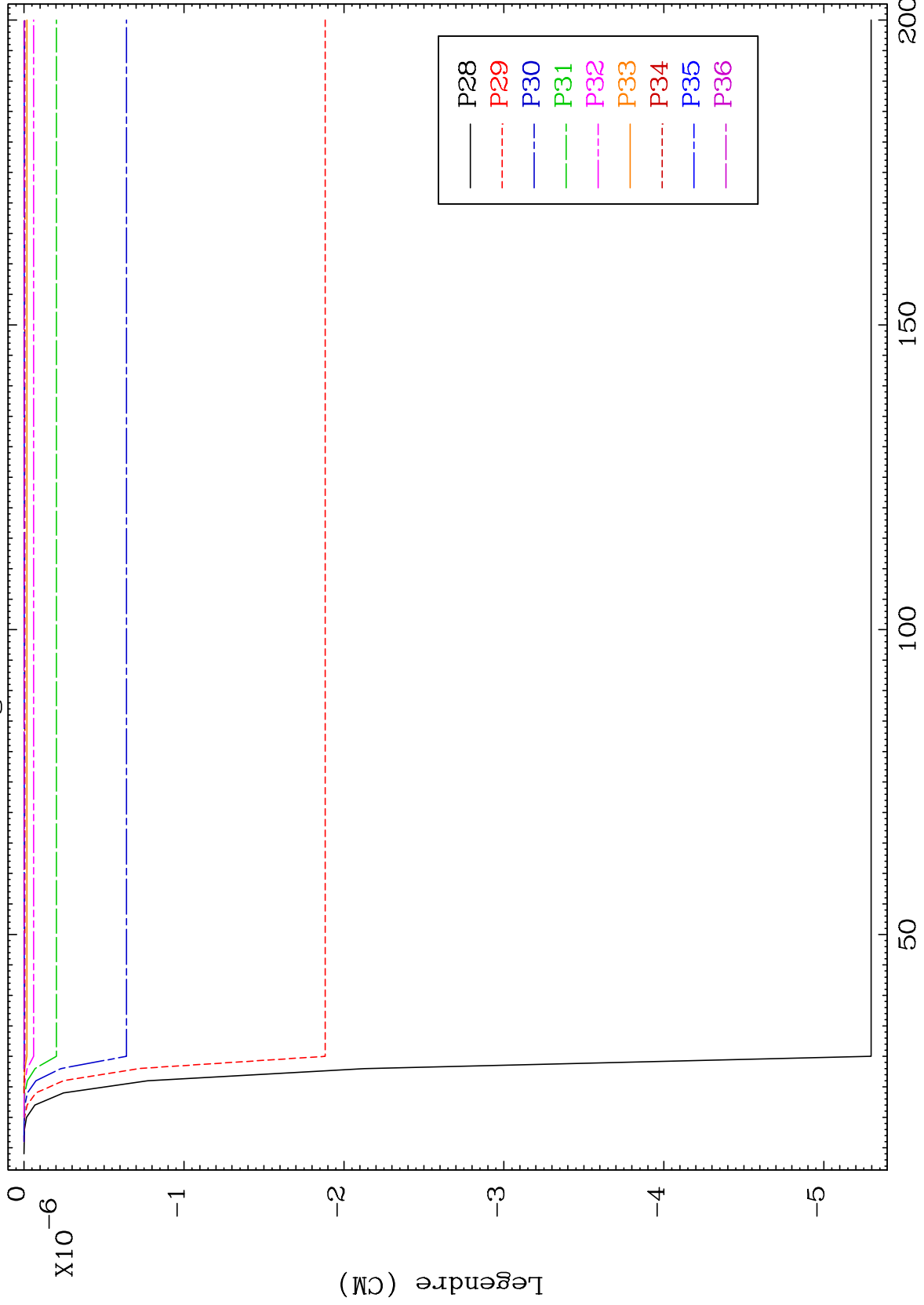
22

58-Ce-141

MAT 5840

MT= 51 (n,n') Level
Legendre Coefficients

58-Ce-141



58-Ce-141

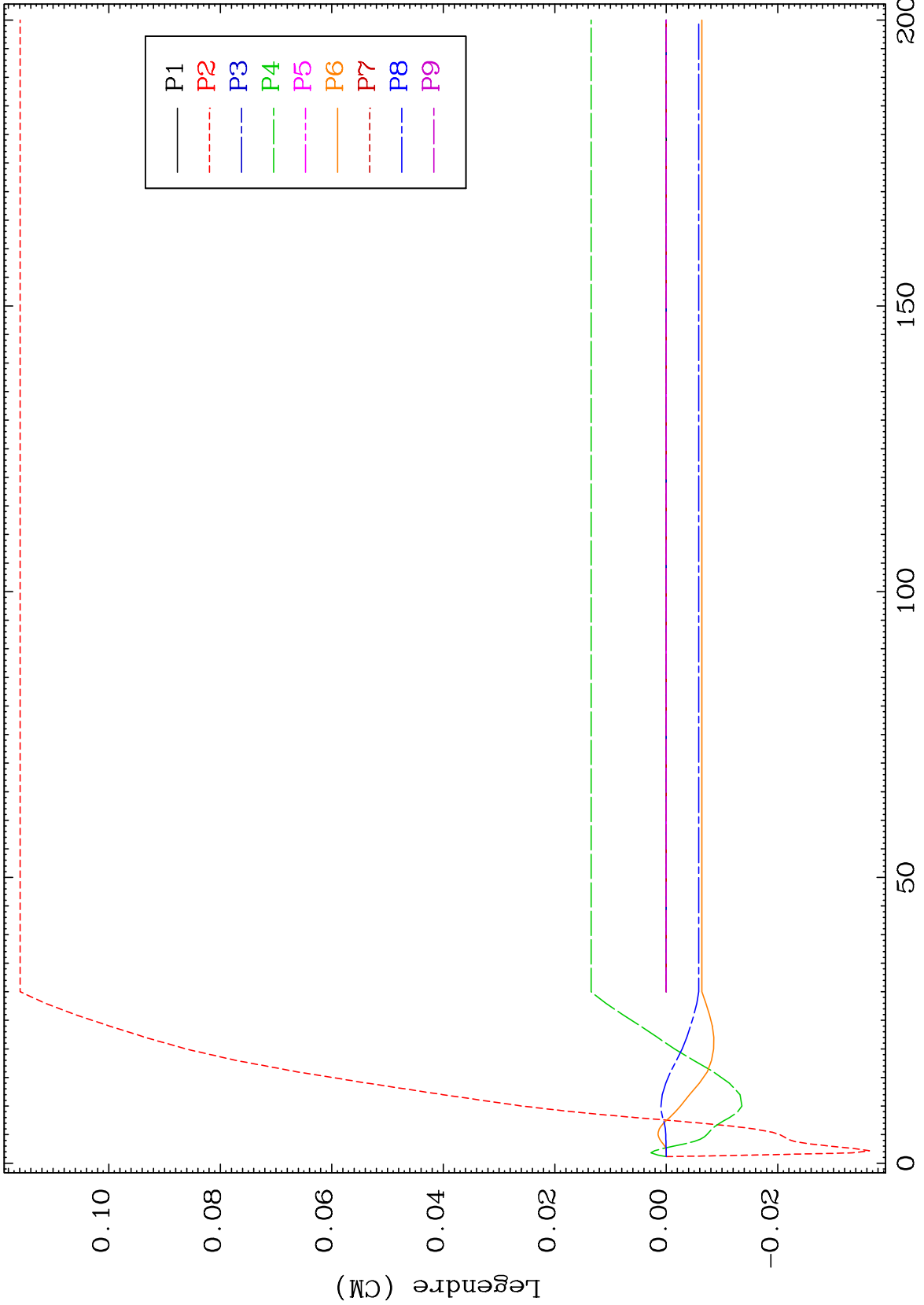
Incident Energy (MeV)

23

MAT 5840

MT= 52 (n,n') Level
Legendre Coefficients

58-Ce-141



24

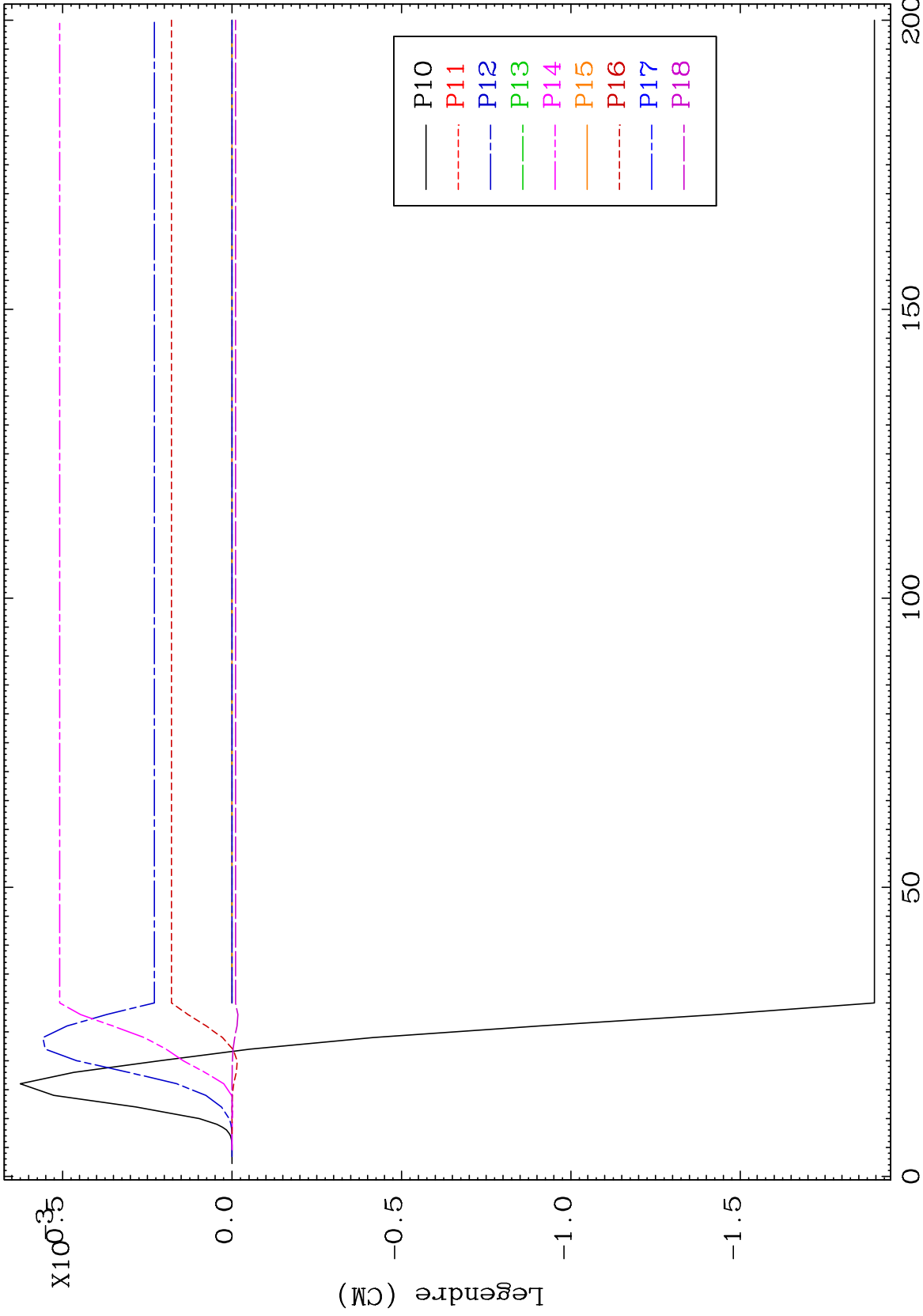
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 52 (n,n') Level
Legendre Coefficients

58-Ce-141

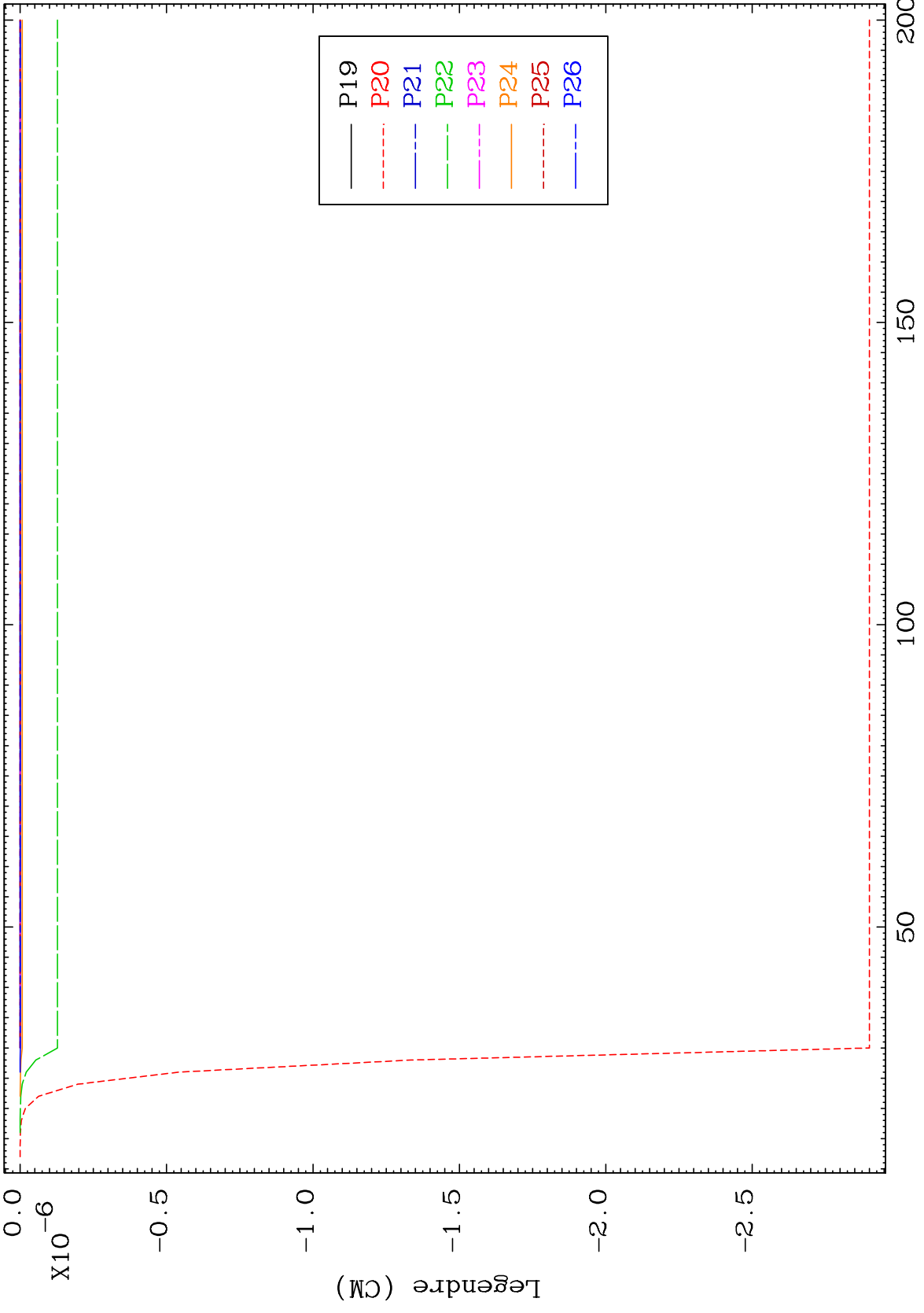


25

Incident Energy (MeV)

58-Ce-141

MAT 5840 MT= 52 (n,n') Level Legendre Coefficients 58-Ce-141

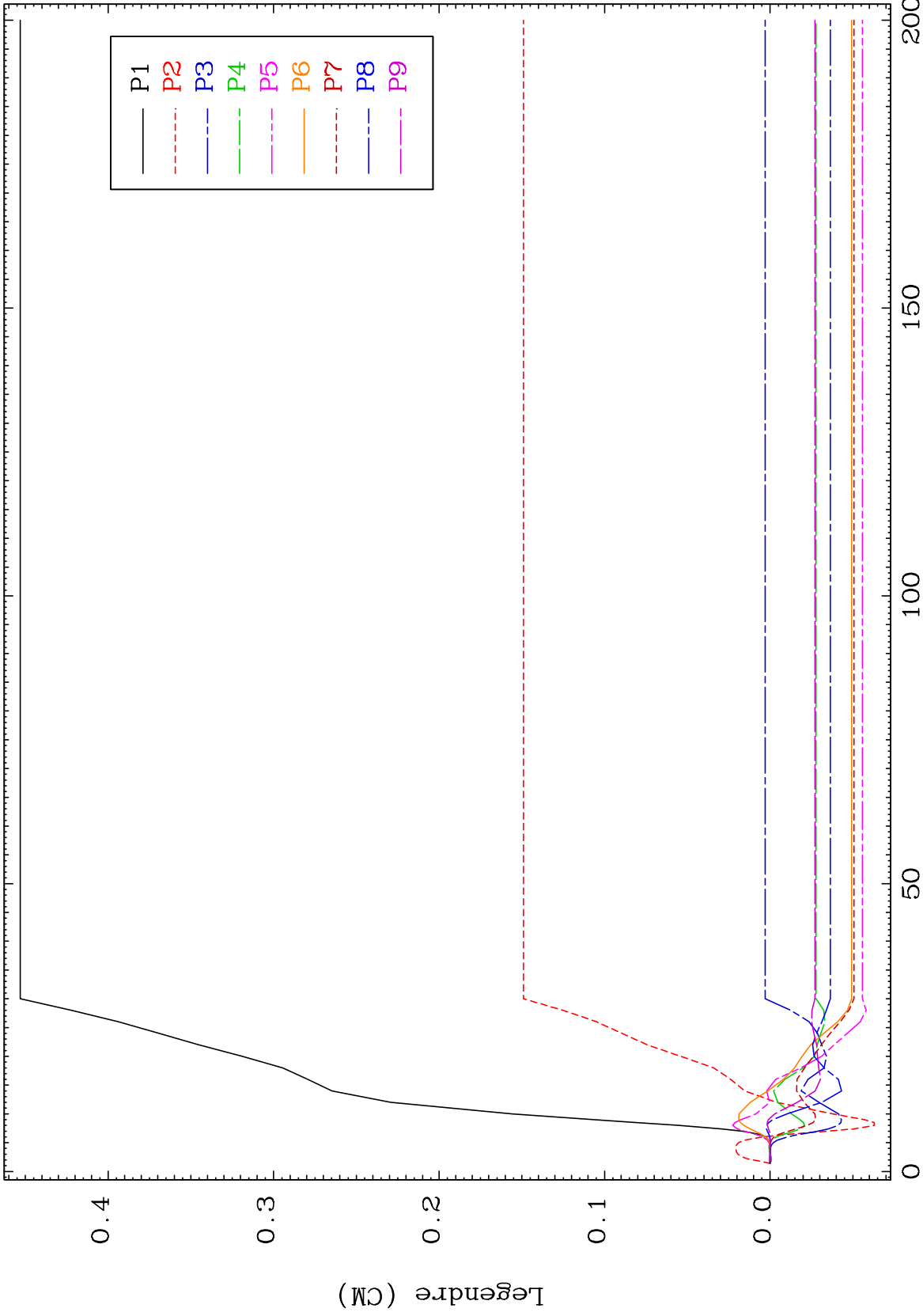


26 Incident Energy (MeV) 58-Ce-141

MAT 5840

MT= 53 (n,n') Level
Legendre Coefficients

58-Ce-141



27

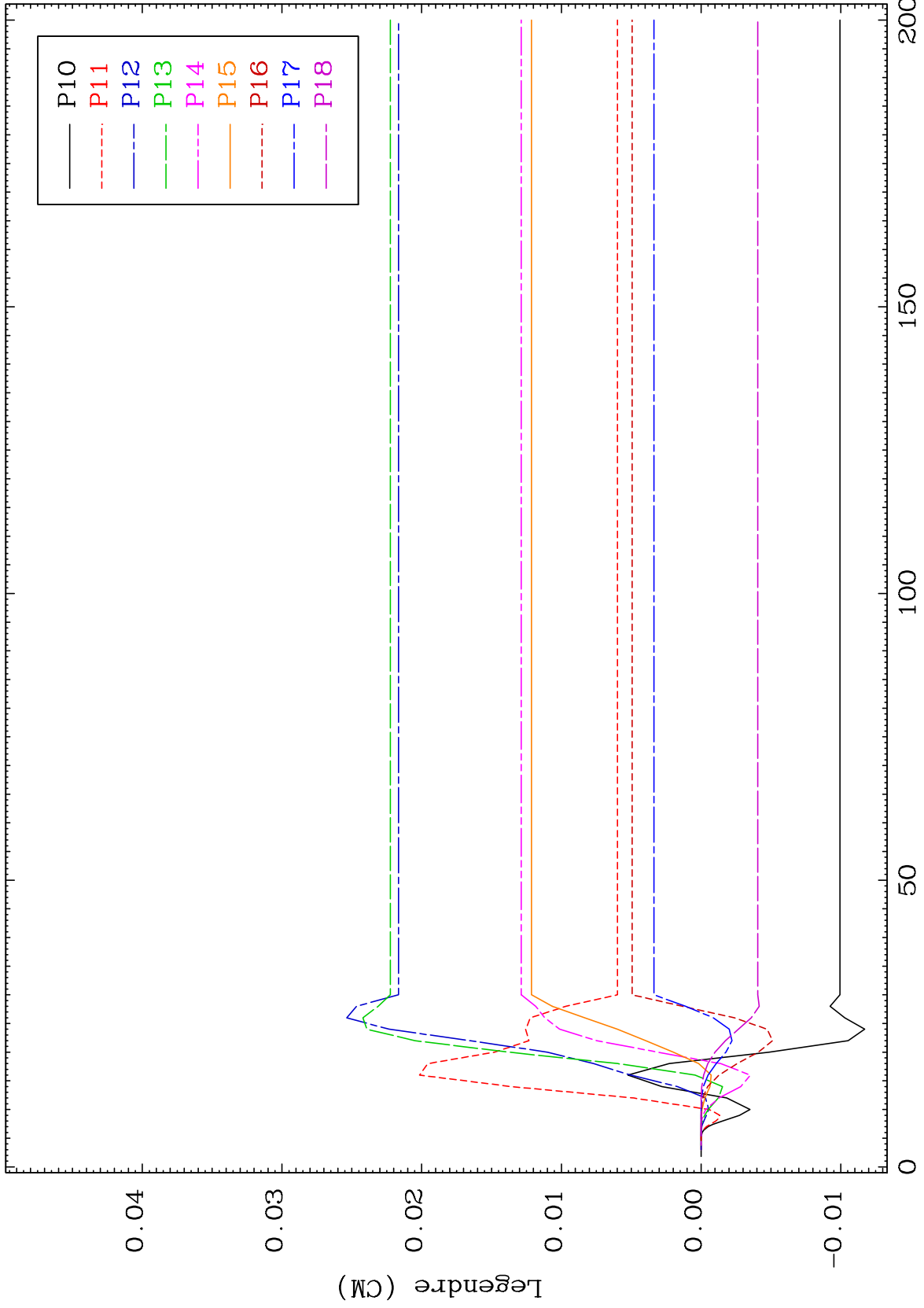
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 53 (n,n') Level
Legendre Coefficients

58-Ce-141



28

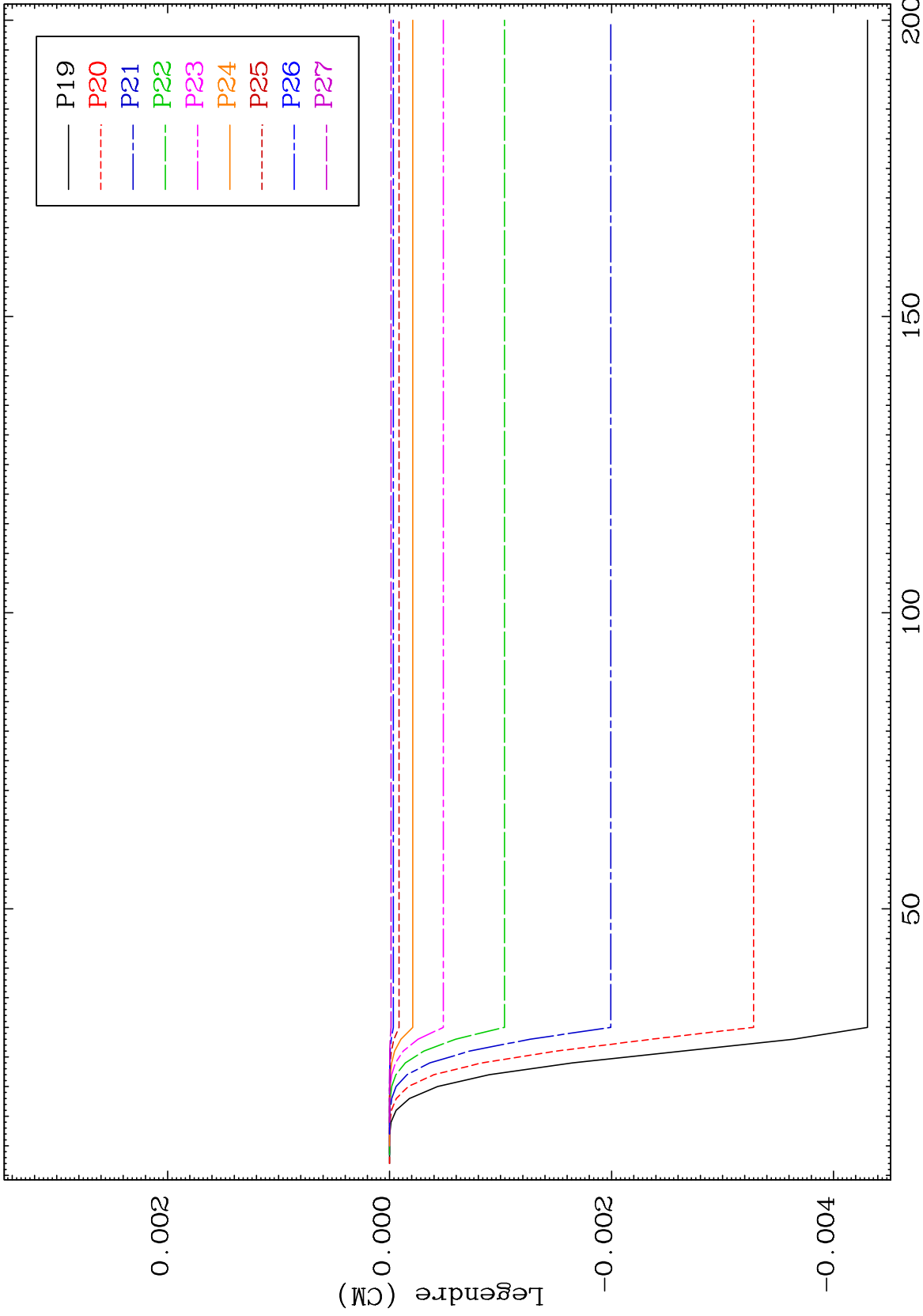
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 53 (n,n') Level
Legendre Coefficients

58-Ce-141



29

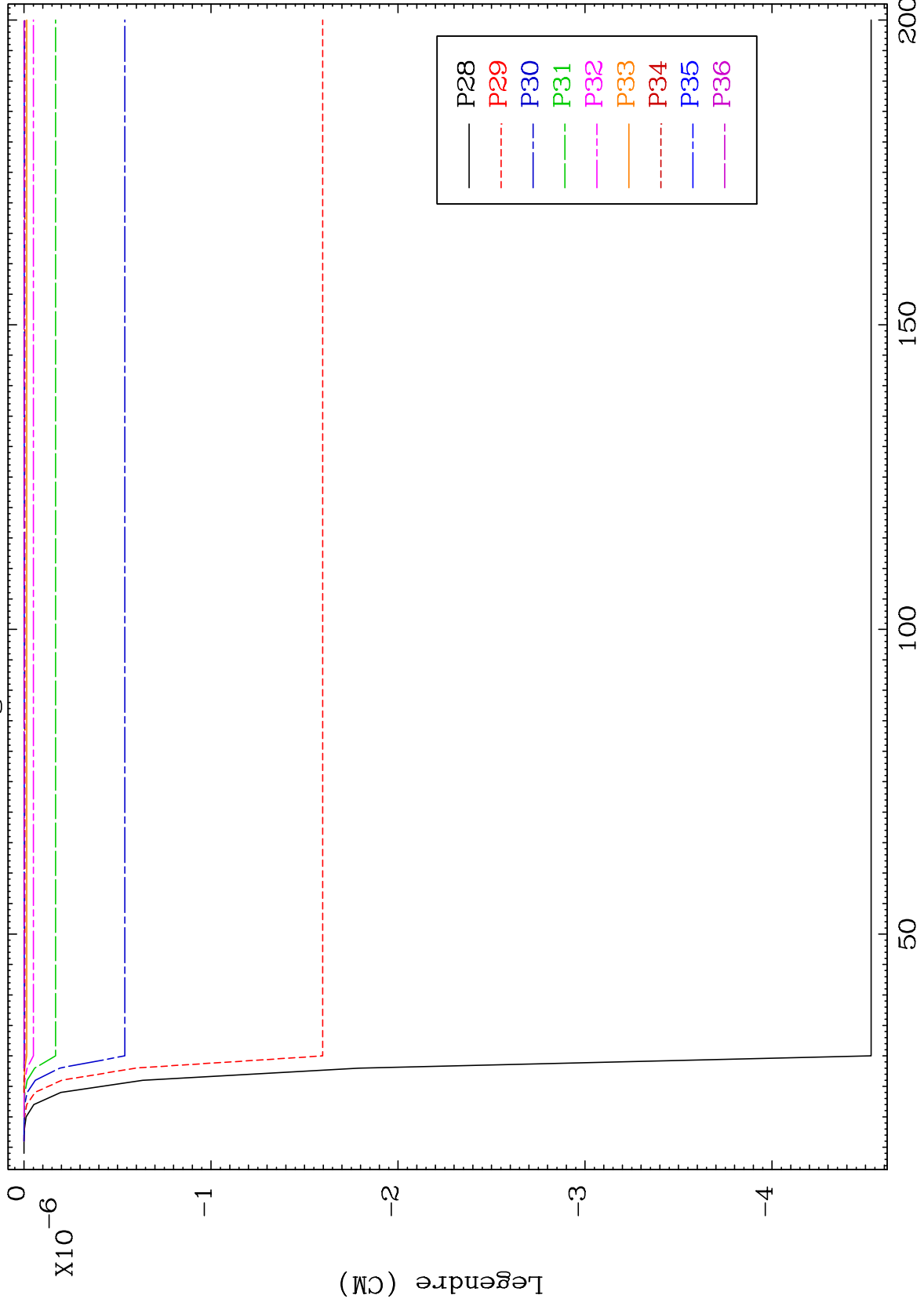
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 53 (n,n') Level
Legendre Coefficients

58-Ce-141



58-Ce-141

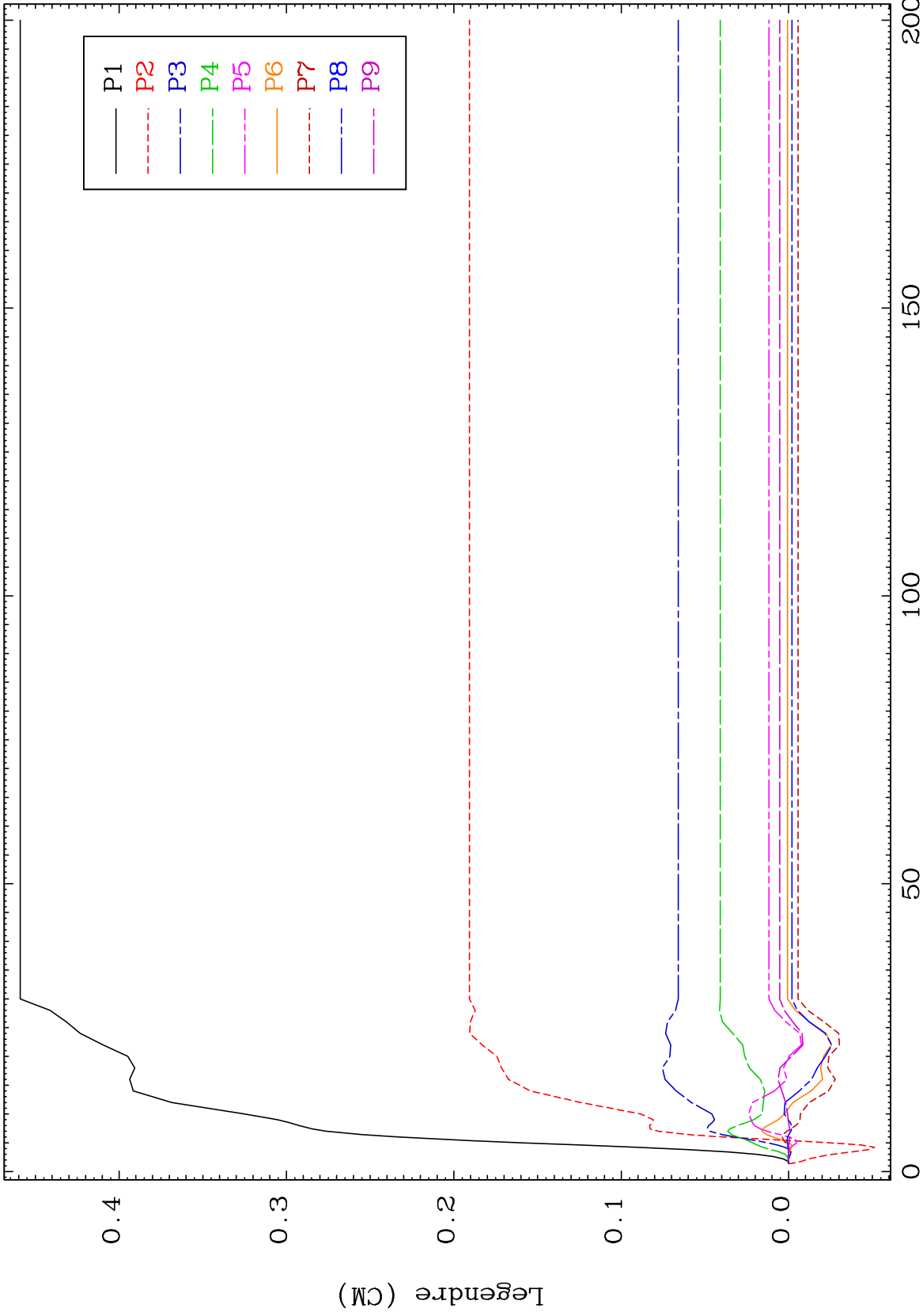
Incident Energy (MeV)

30

MAT 5840

MT= 54 (n,n') Level
Legendre Coefficients

58-Ce-141

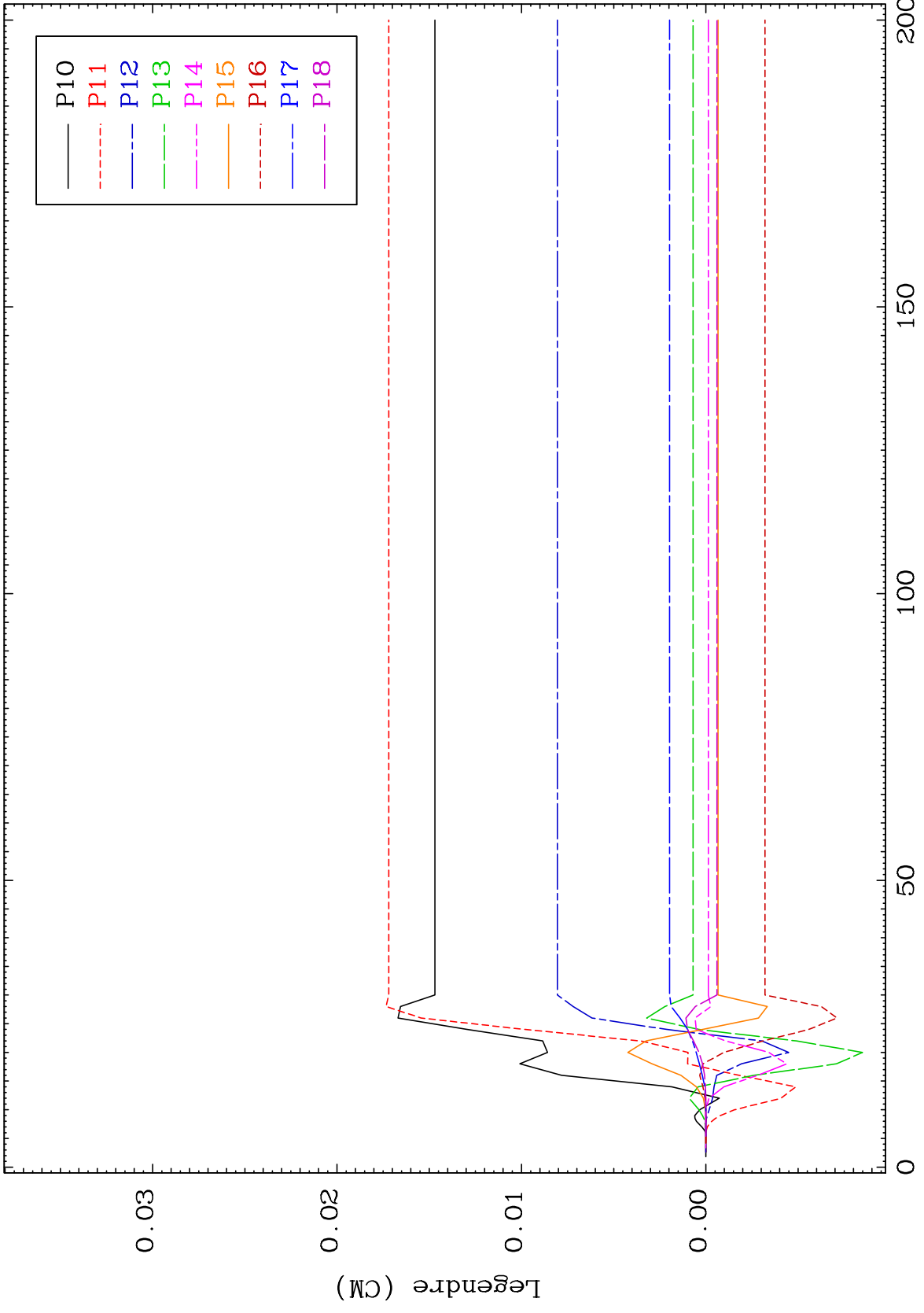


31

Incident Energy (MeV)

58-Ce-141

MAT 5840 MT= 54 (n,n') Level Legendre Coefficients 58-Ce-141

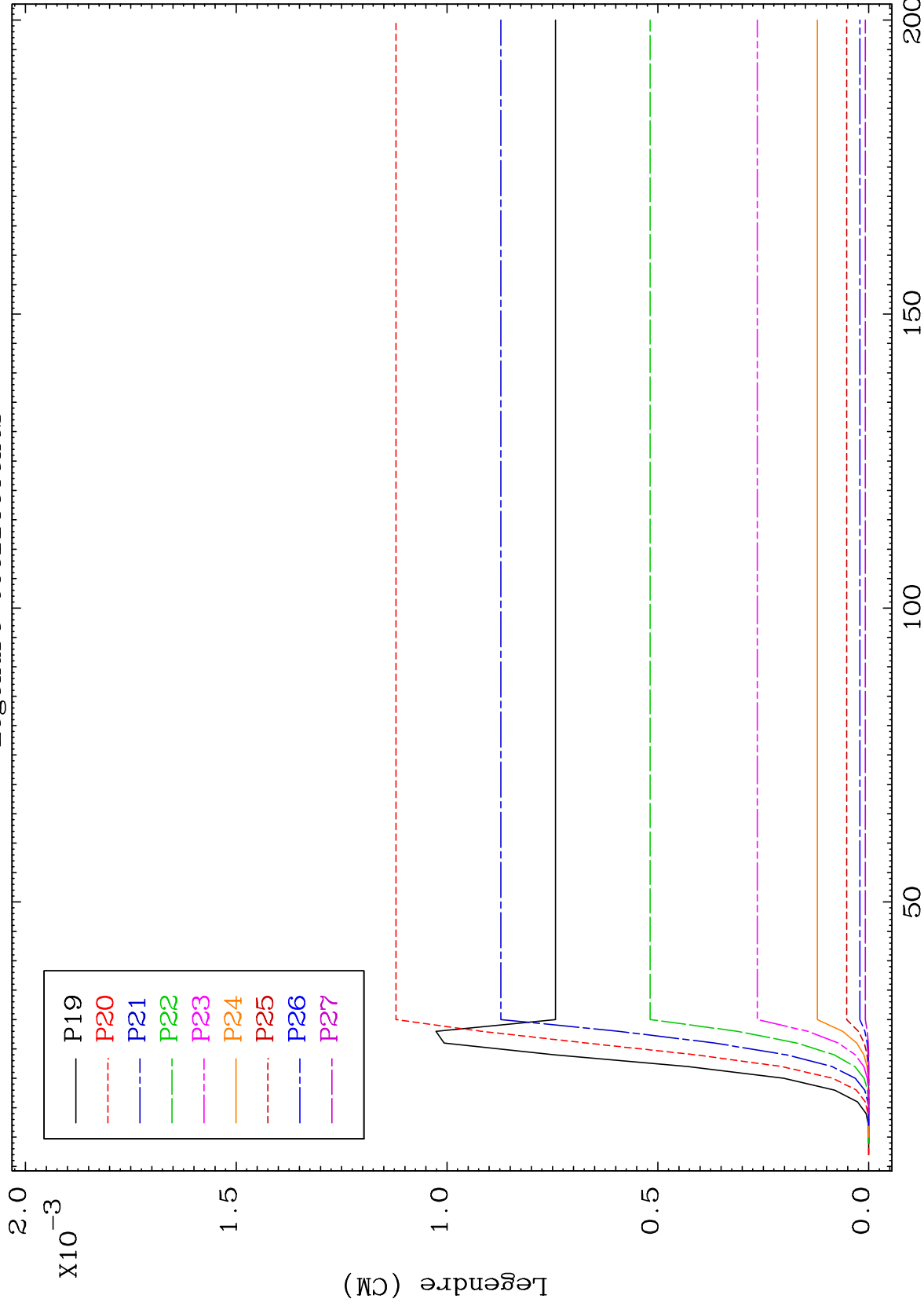


32 58-Ce-141

MAT 5840

MT= 54 (n,n') Level
Legendre Coefficients

58-Ce-141



33

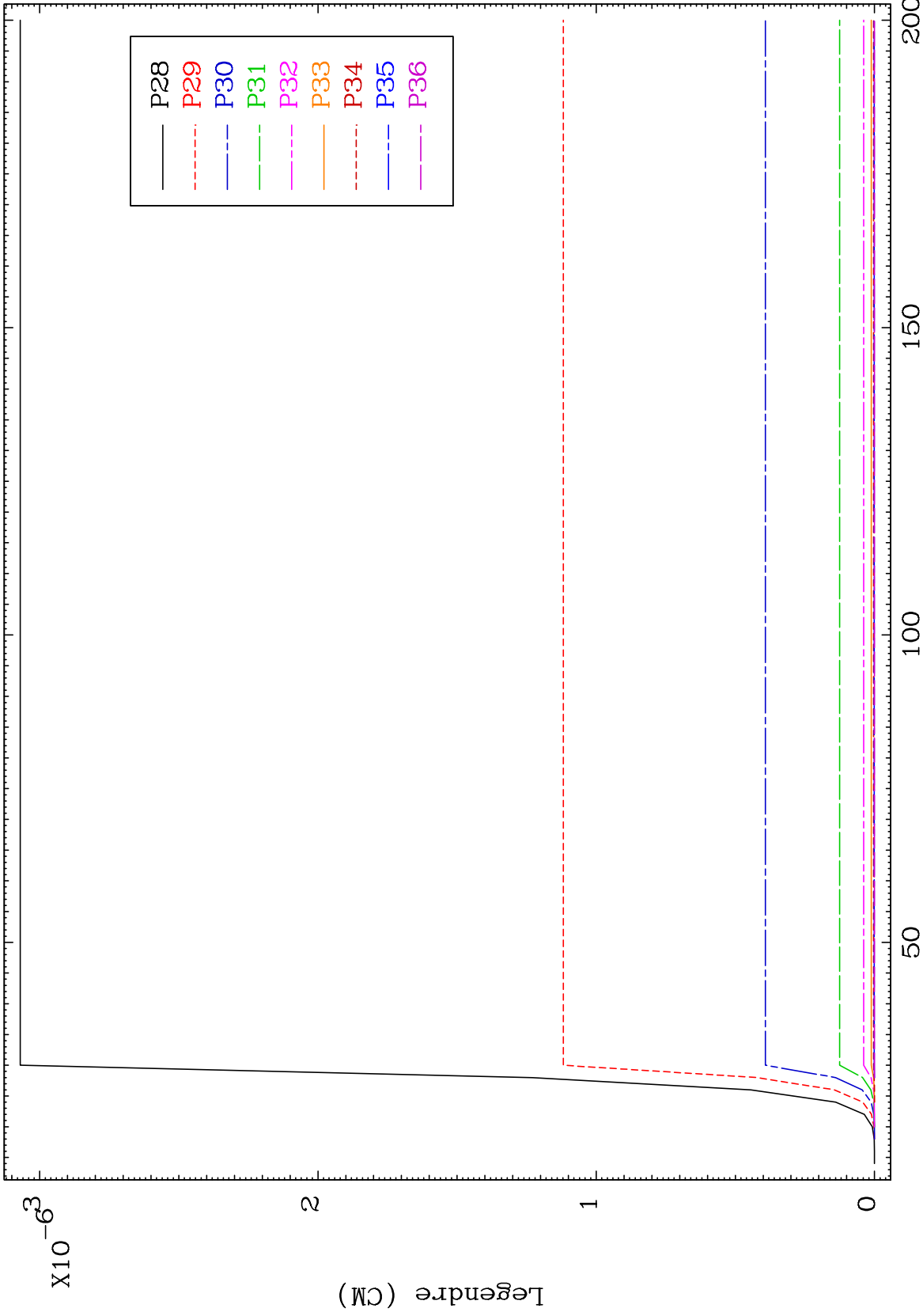
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 54 (n,n') Level
Legendre Coefficients

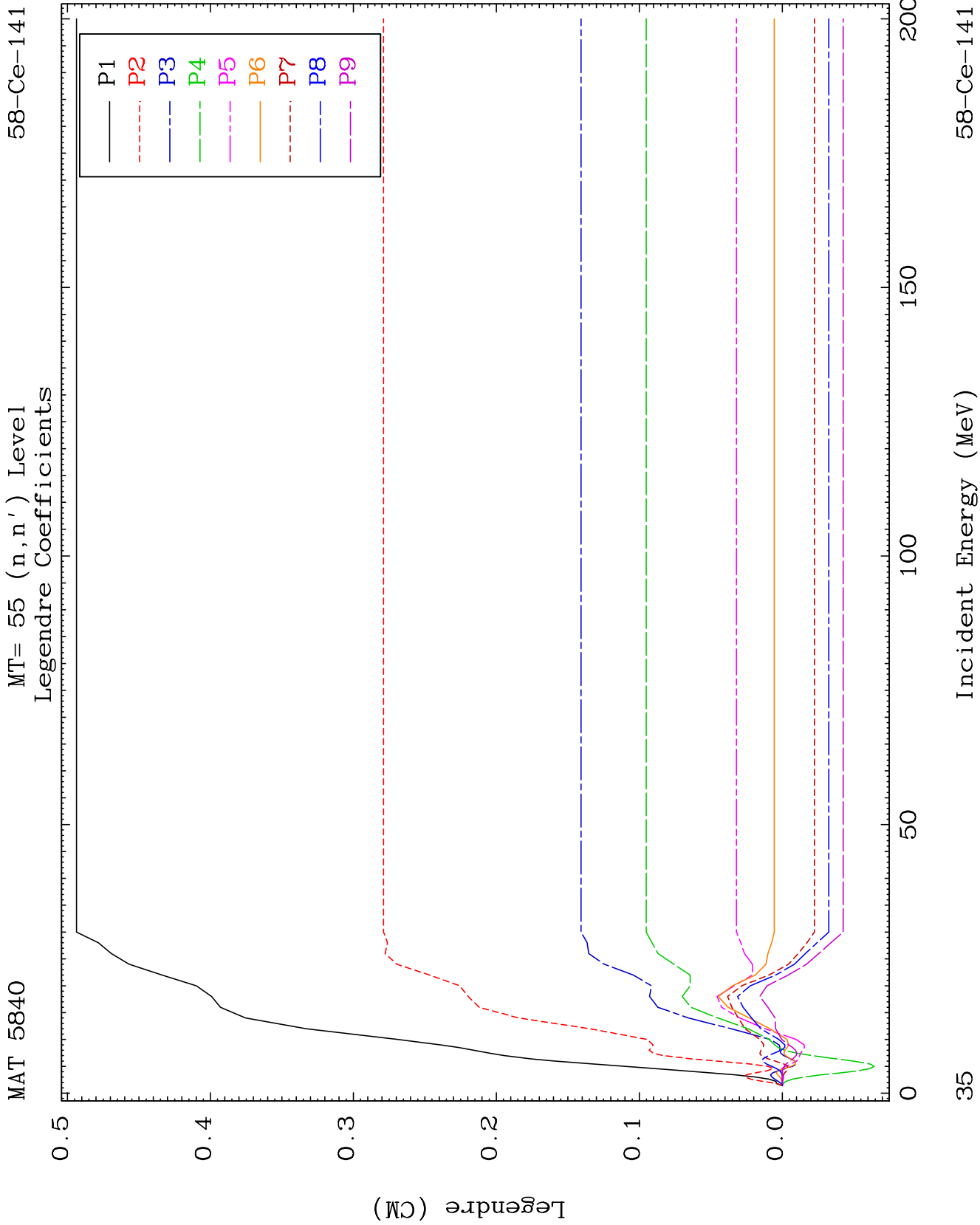
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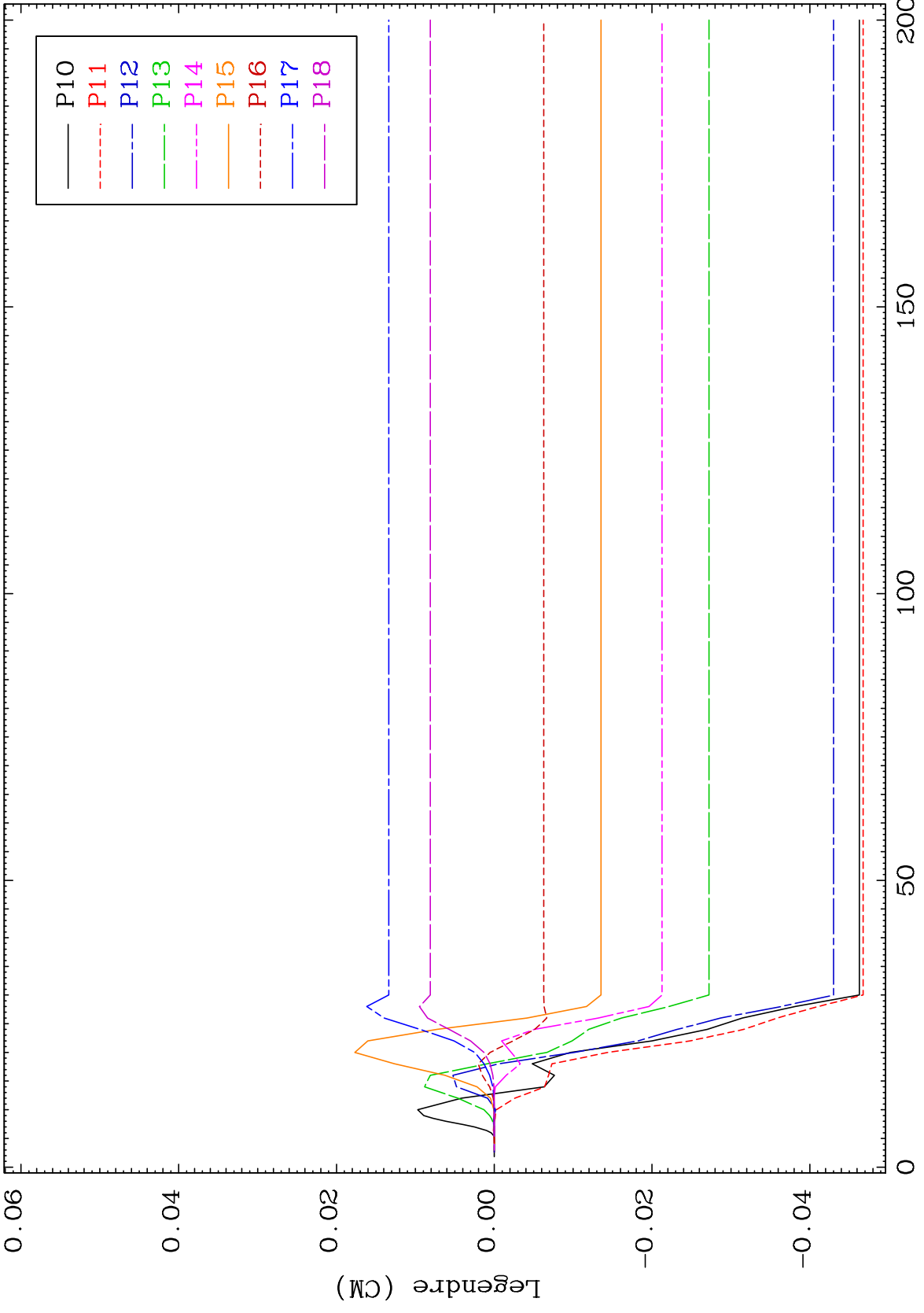
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Incident Energy (MeV)

58-Ce-141



MAT 5840 MT= 55 (n,n') Level Legendre Coefficients 58-Ce-141



36 58-Ce-141

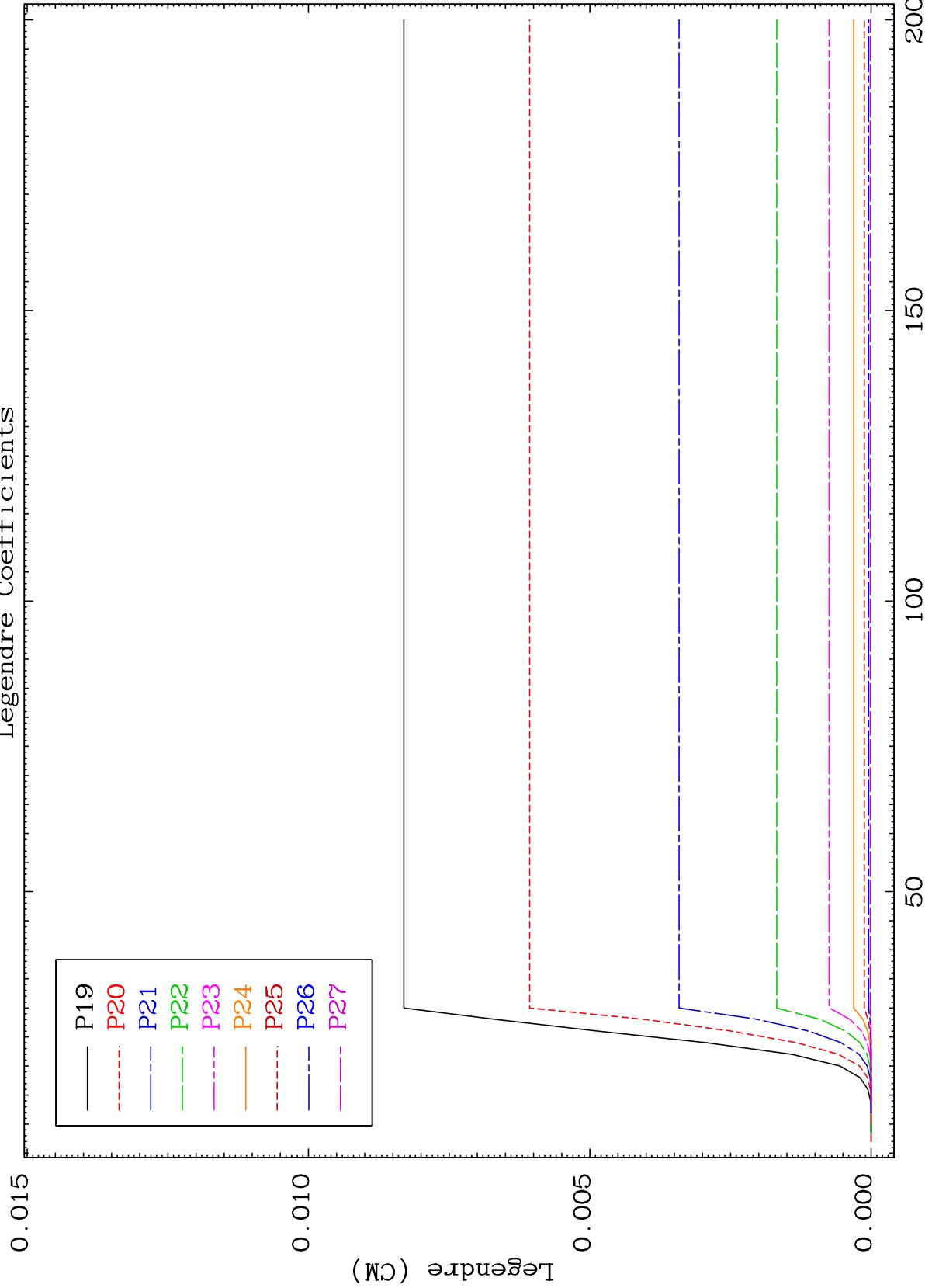
MAT 5840 MT= 55 (n,n') Level Legendre Coefficients

58-Ce-141

58-Ce-141

Incident Energy (MeV)

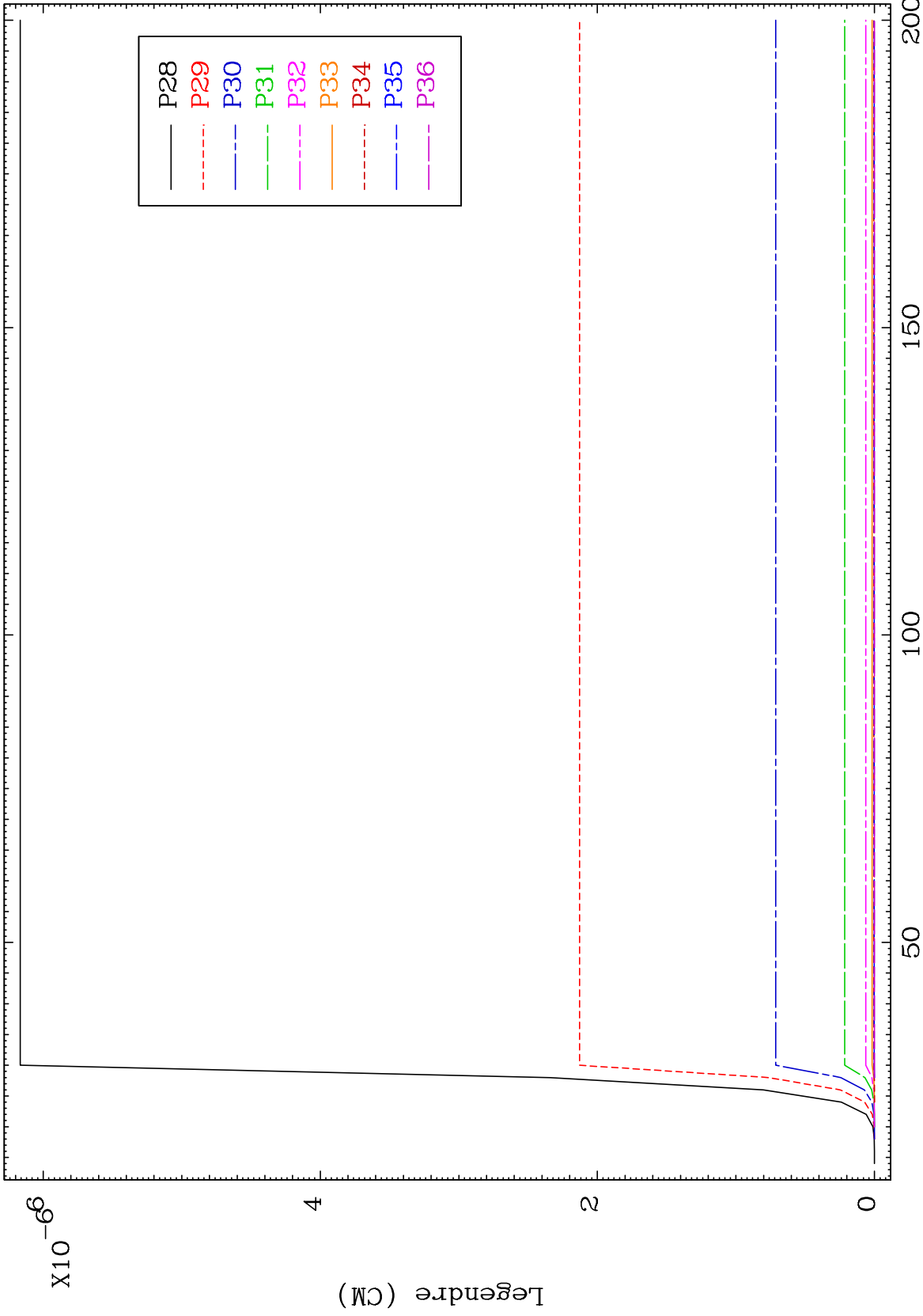
37



MAT 5840

MT= 55 (n,n') Level
Legendre Coefficients

58-Ce-141

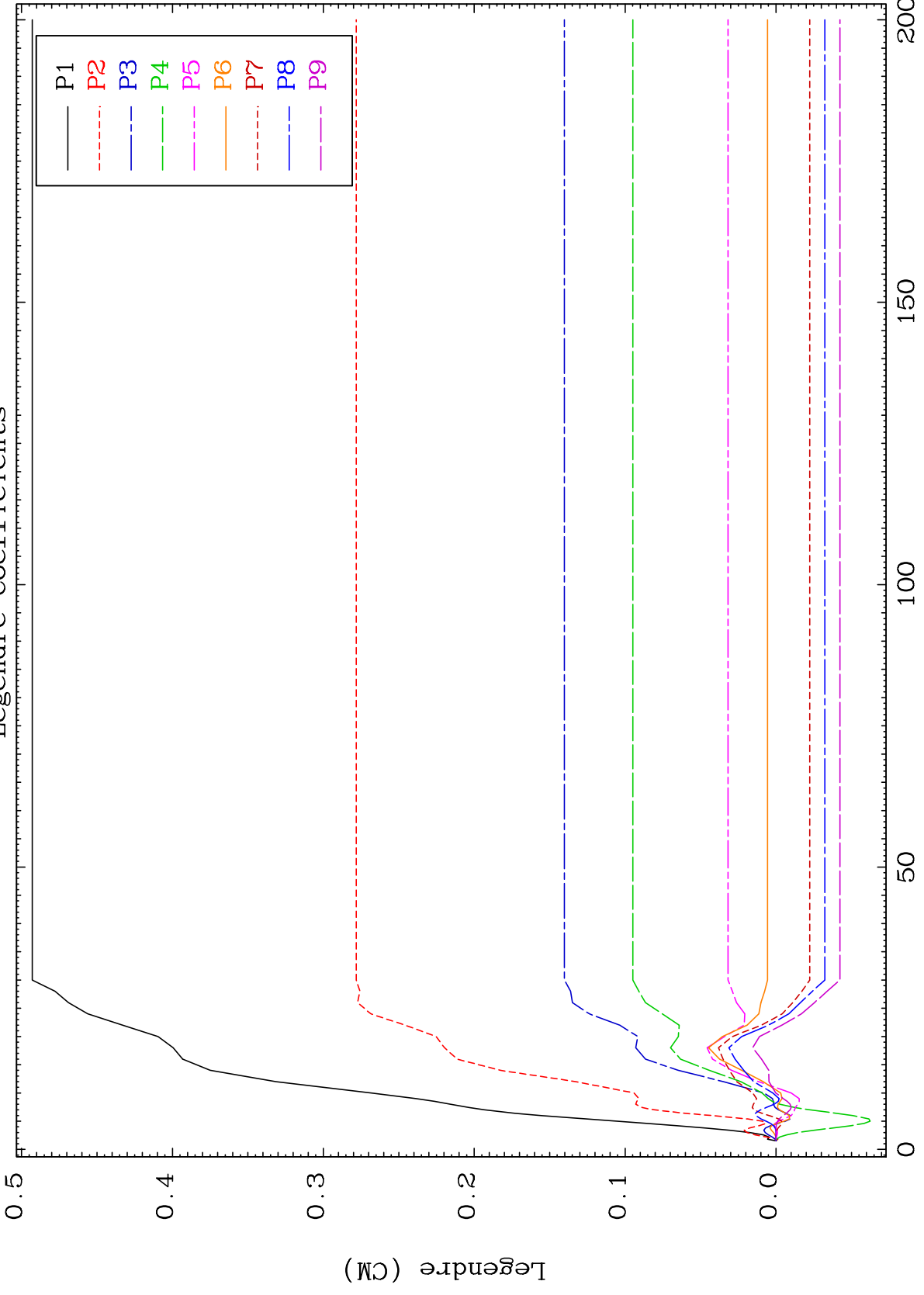


38

Incident Energy (MeV)

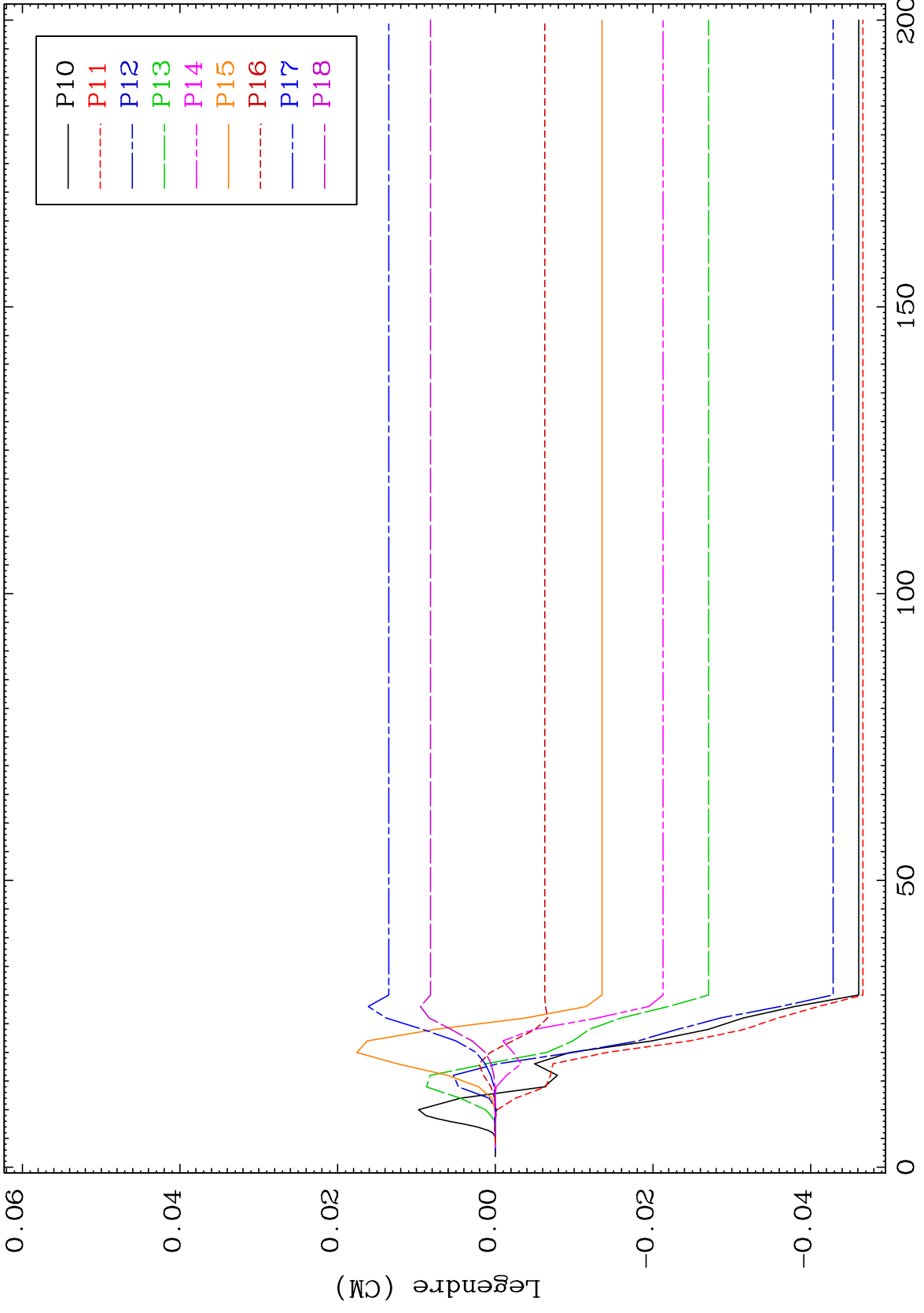
58-Ce-141

MAT 5840 MT= 56 (n,n') Level Legendre Coefficients 58-Ce-141



39 58-Ce-141

MAT 5840 MT= 56 (n,n') Level Legendre Coefficients 58-Ce-141

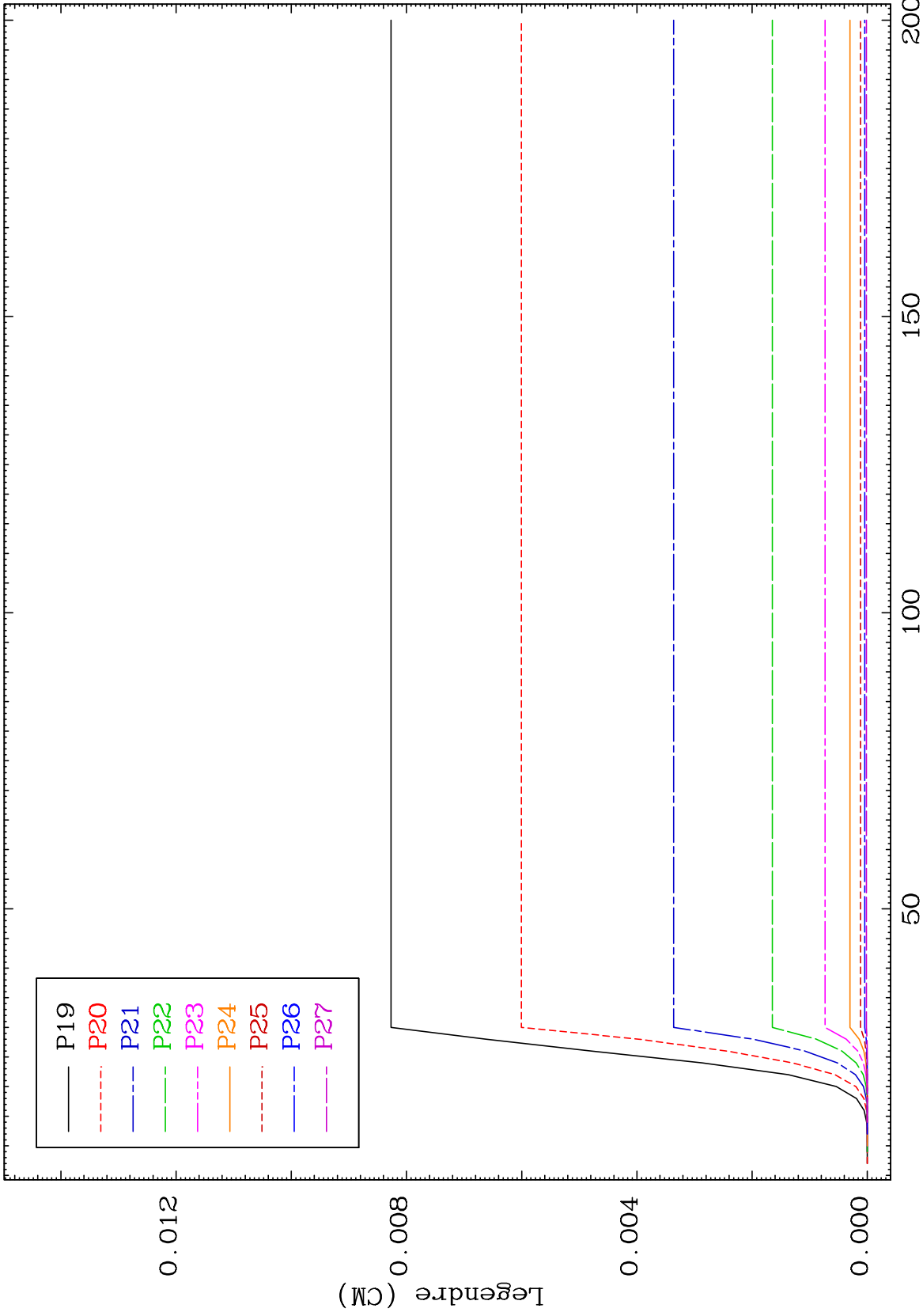


58-Ce-141

MAT 5840

MT= 56 (n,n') Level
Legendre Coefficients

58-Ce-141



41

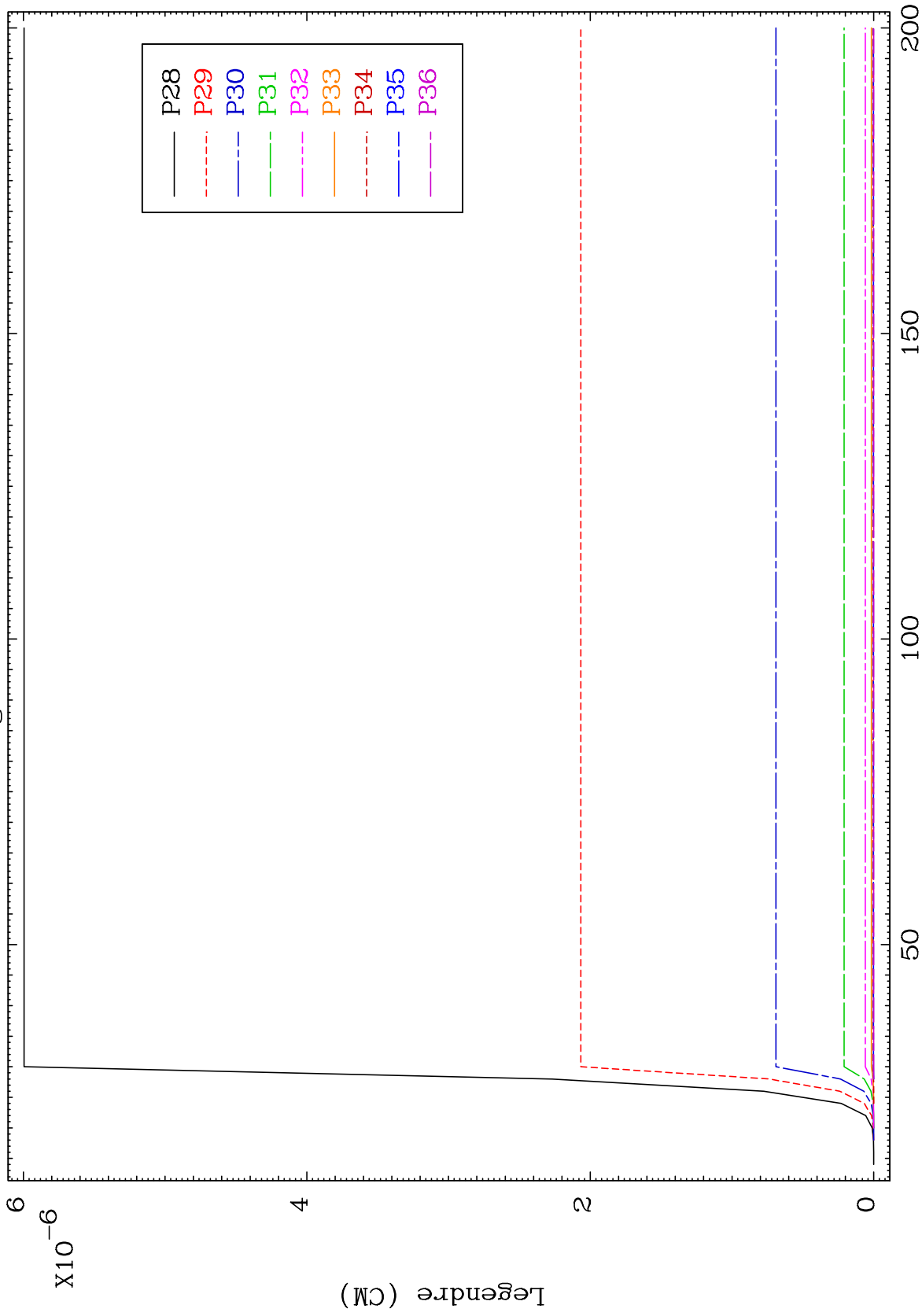
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 56 (n,n') Level
Legendre Coefficients

58-Ce-141

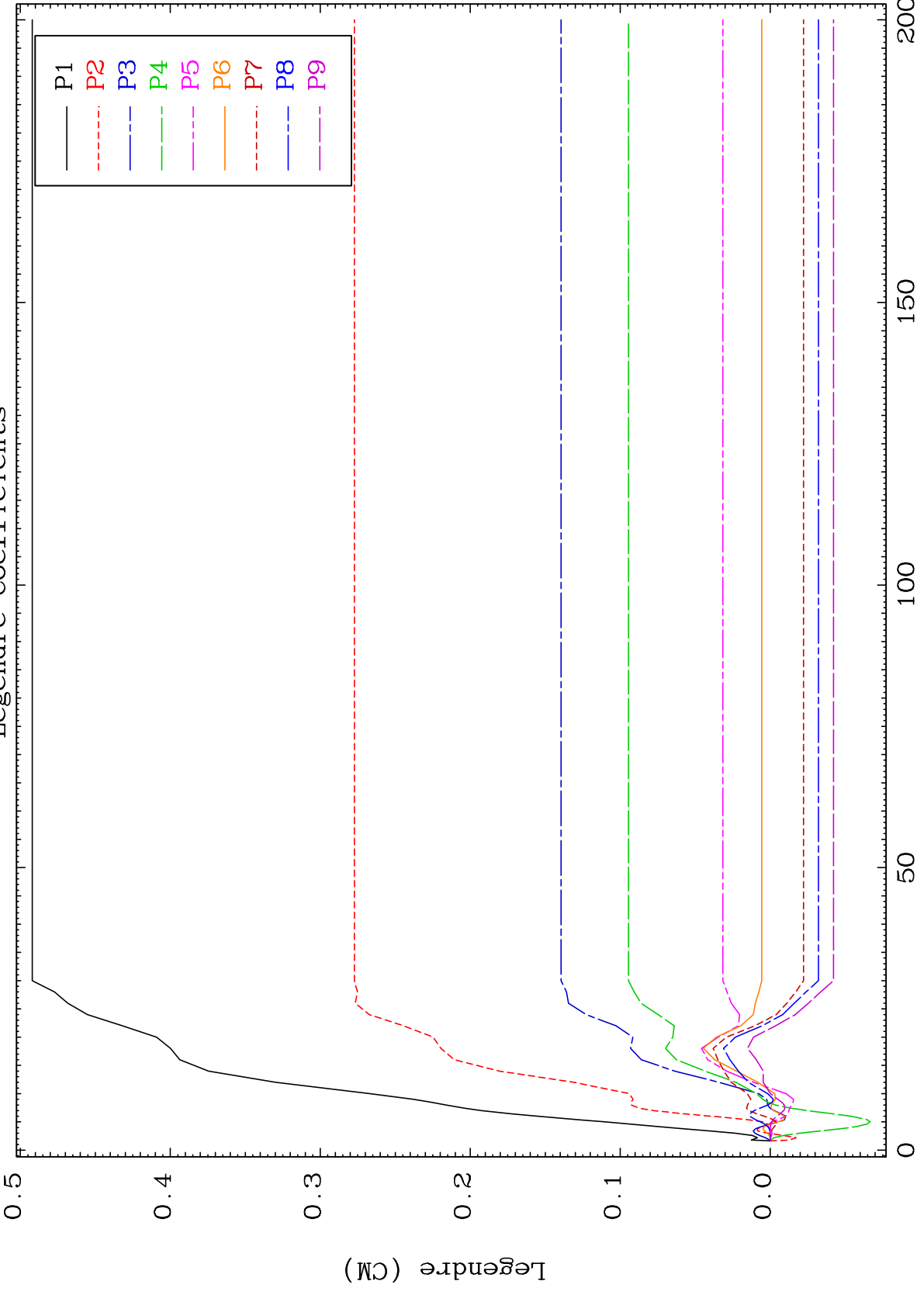


42

Incident Energy (MeV)

58-Ce-141

MAT 5840 MT= 57 (n,n') Level Legendre Coefficients 58-Ce-141

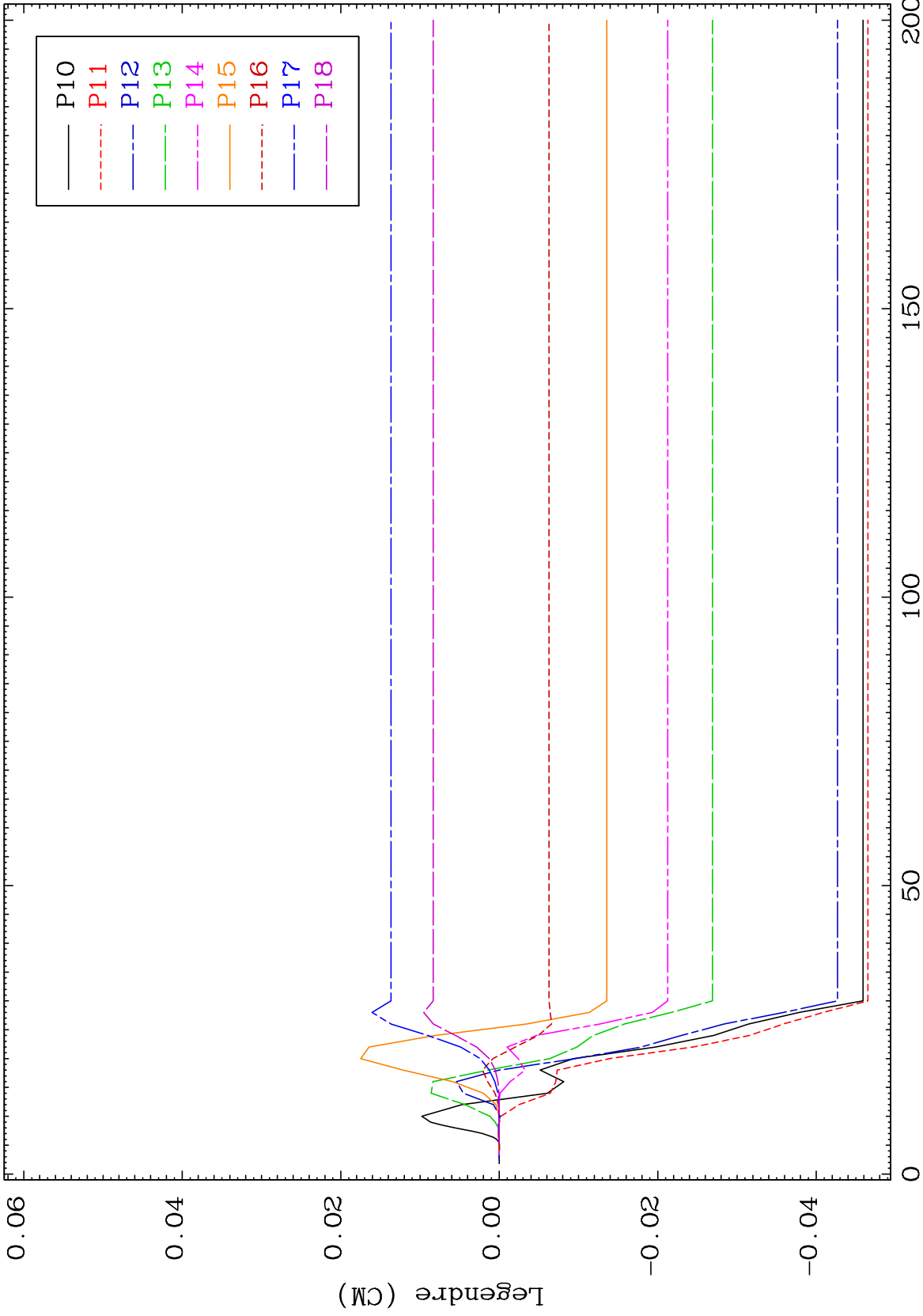


43 58-Ce-141

MAT 5840

MT= 57 (n,n') Level
Legendre Coefficients

58-Ce-141



44

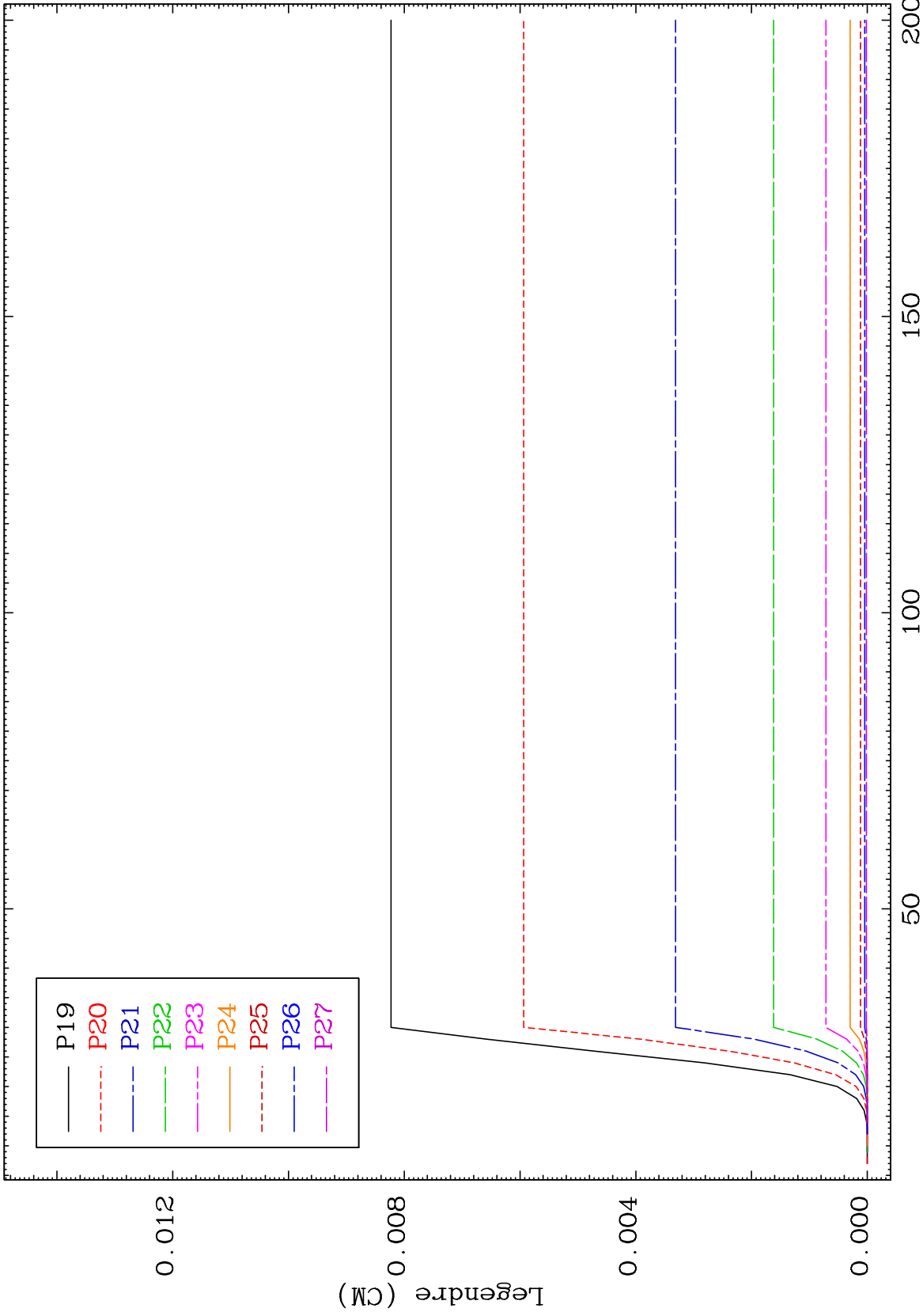
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 57 (n,n') Level
Legendre Coefficients

58-Ce-141



45

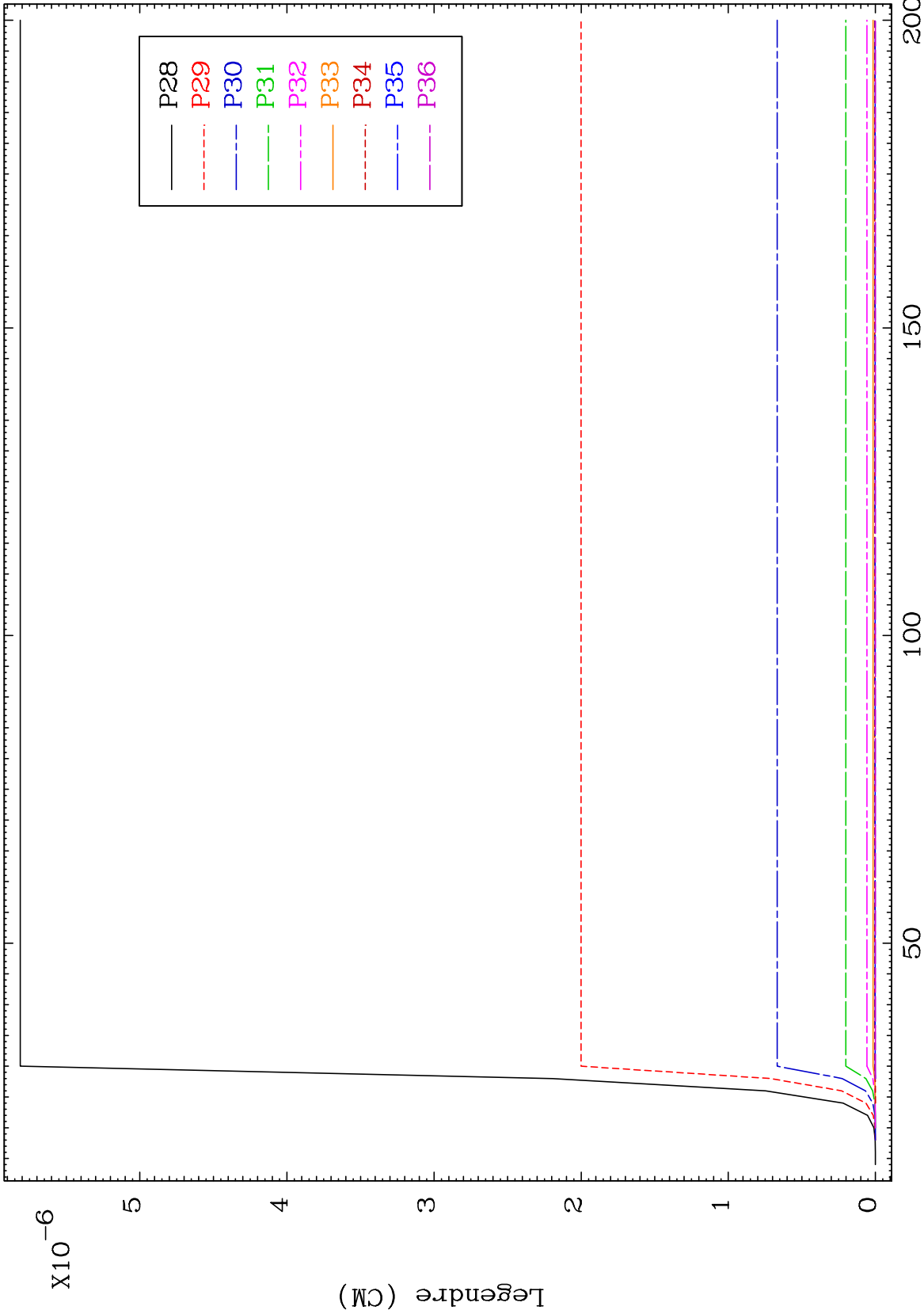
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 57 (n,n') Level
Legendre Coefficients

58-Ce-141

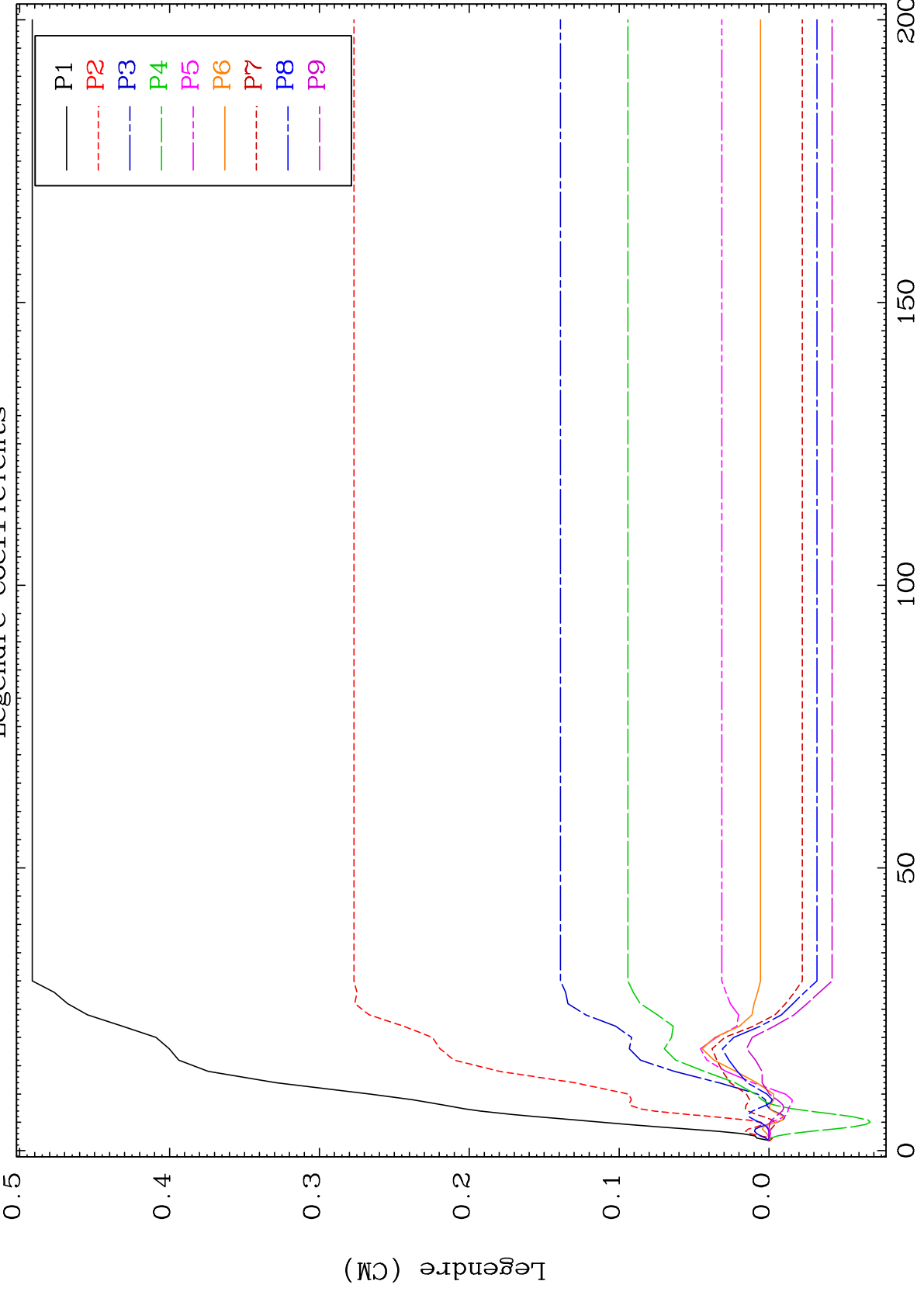


46

Incident Energy (MeV)

58-Ce-141

MAT 5840 MT= 58 (n,n') Level Legendre Coefficients 58-Ce-141

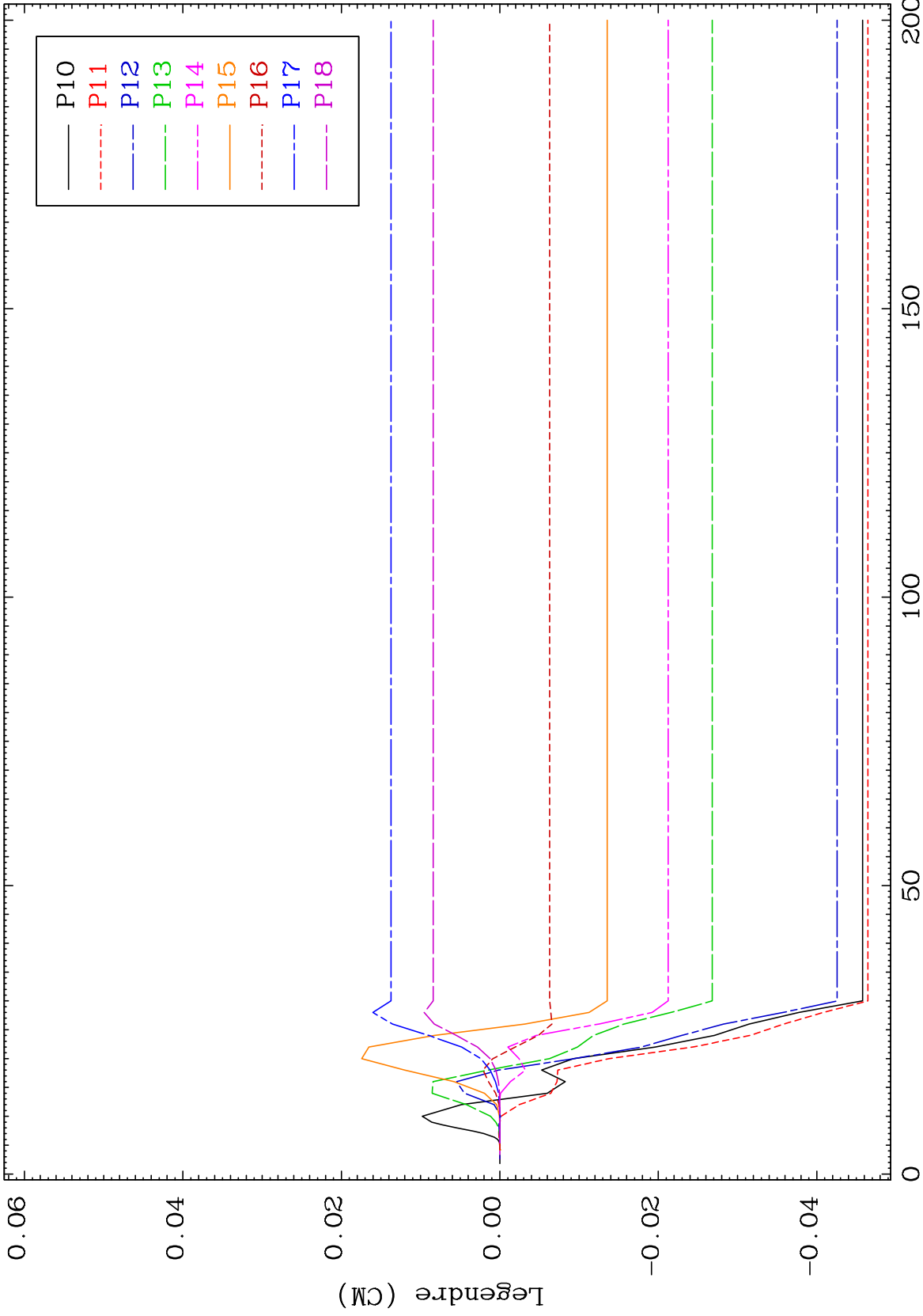


47 58-Ce-141

MAT 5840

MT= 58 (n,n') Level
Legendre Coefficients

58-Ce-141



48

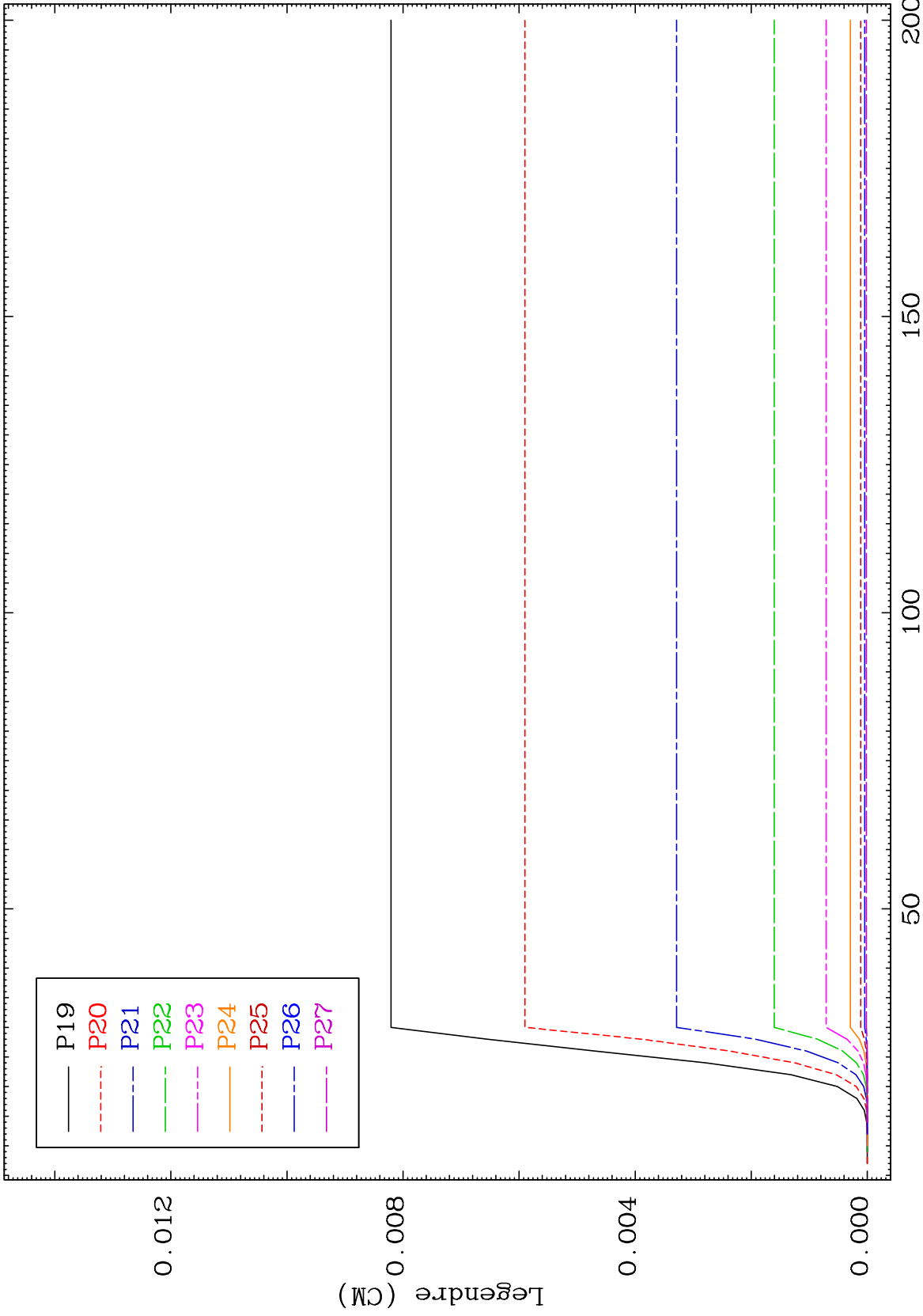
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 58 (n,n') Level
Legendre Coefficients

58-Ce-141



49

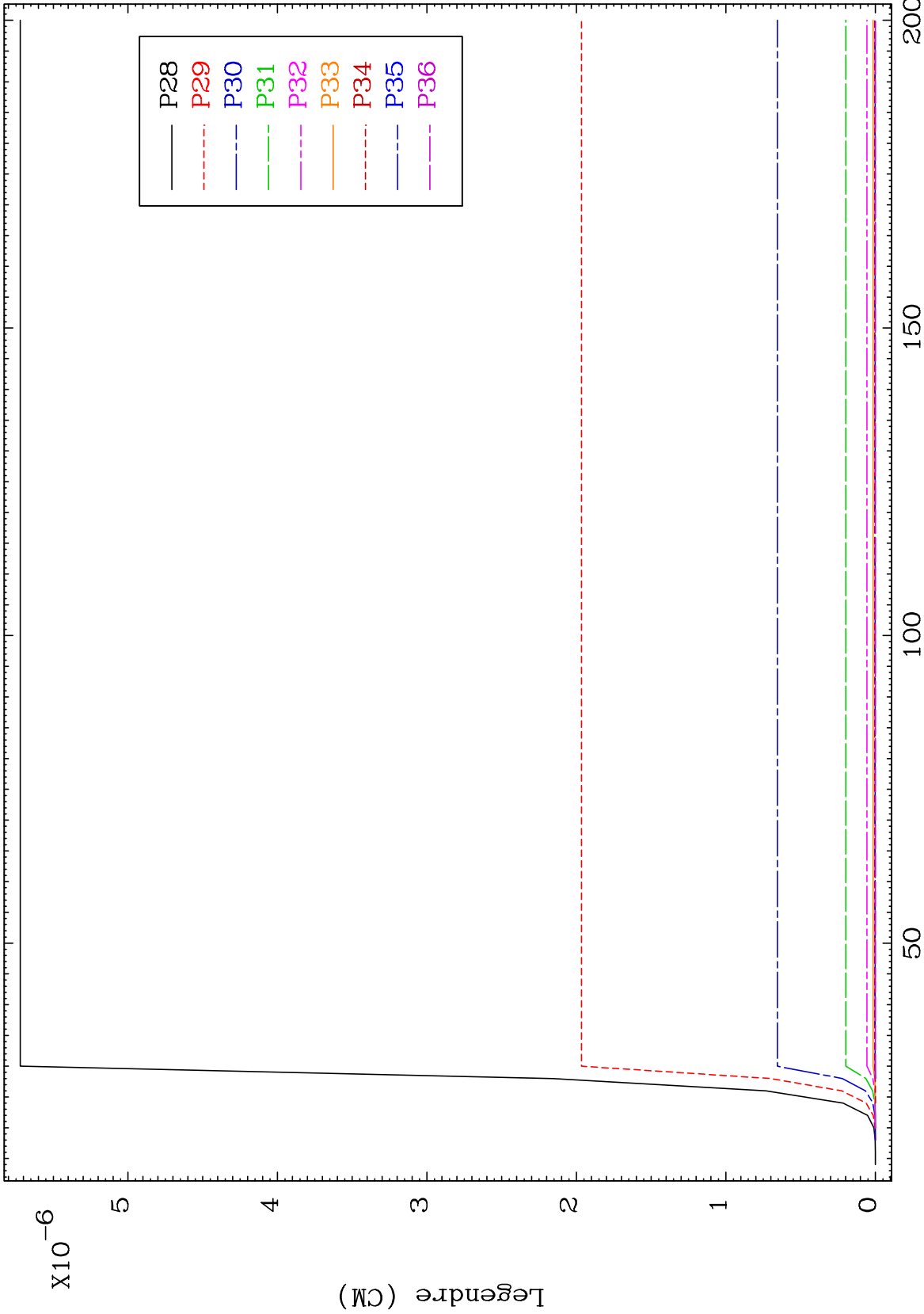
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 58 (n,n') Level
Legendre Coefficients

58-Ce-141

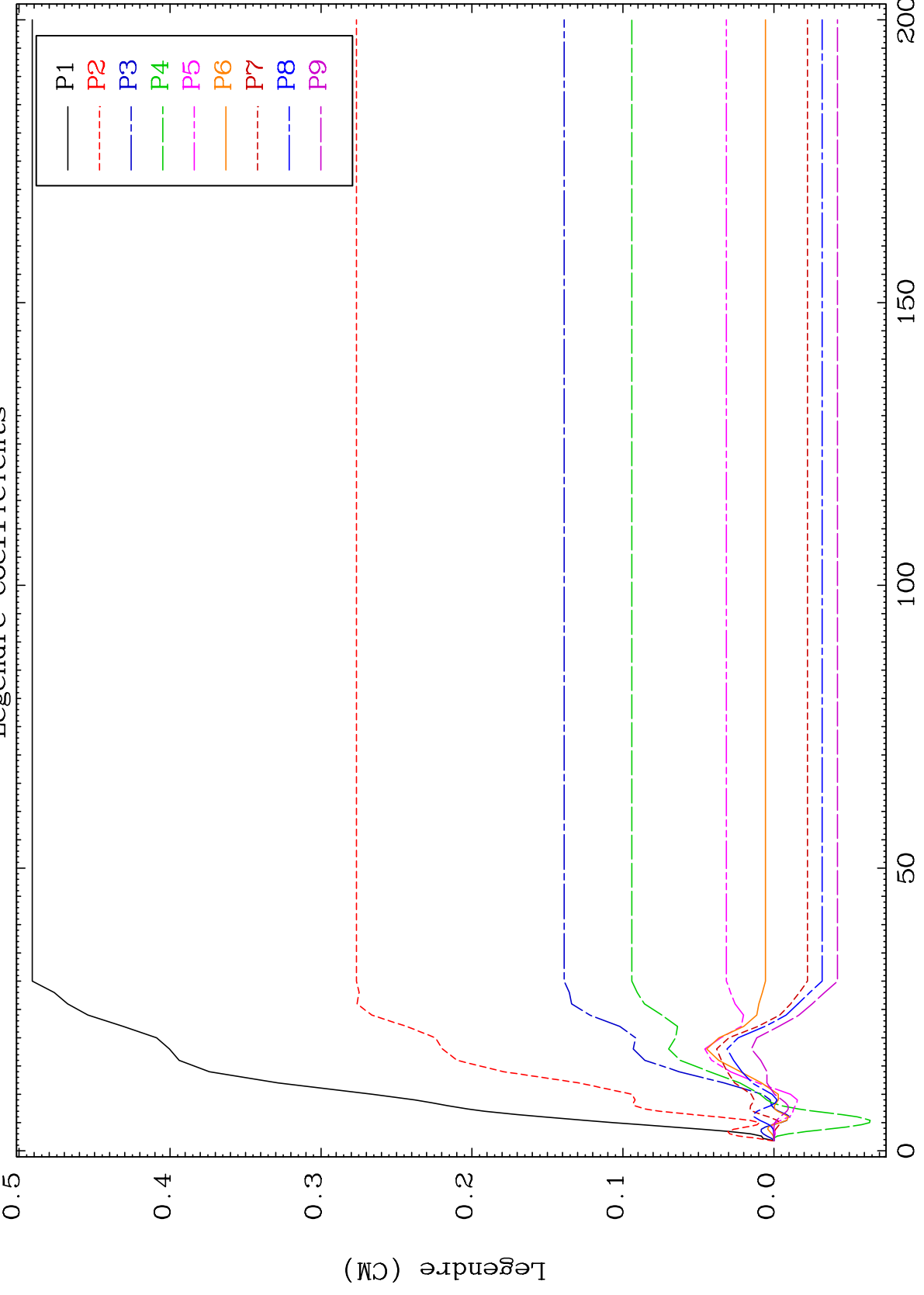


50

Incident Energy (MeV)

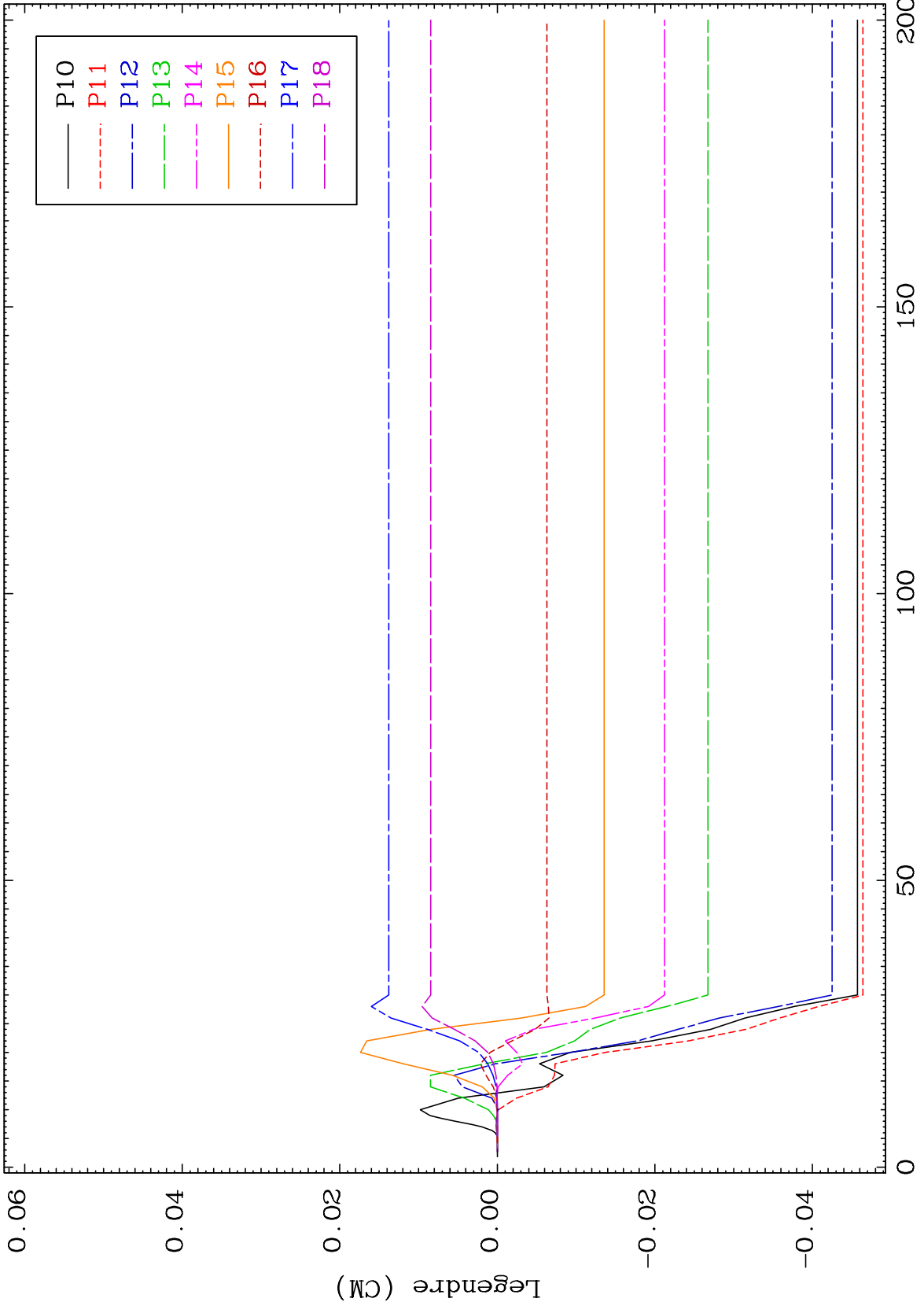
58-Ce-141

MAT 5840 MT= 59 (n,n') Level Legendre Coefficients 58-Ce-141



51 58-Ce-141

MAT 5840 MT= 59 (n,n') Level Legendre Coefficients 58-Ce-141

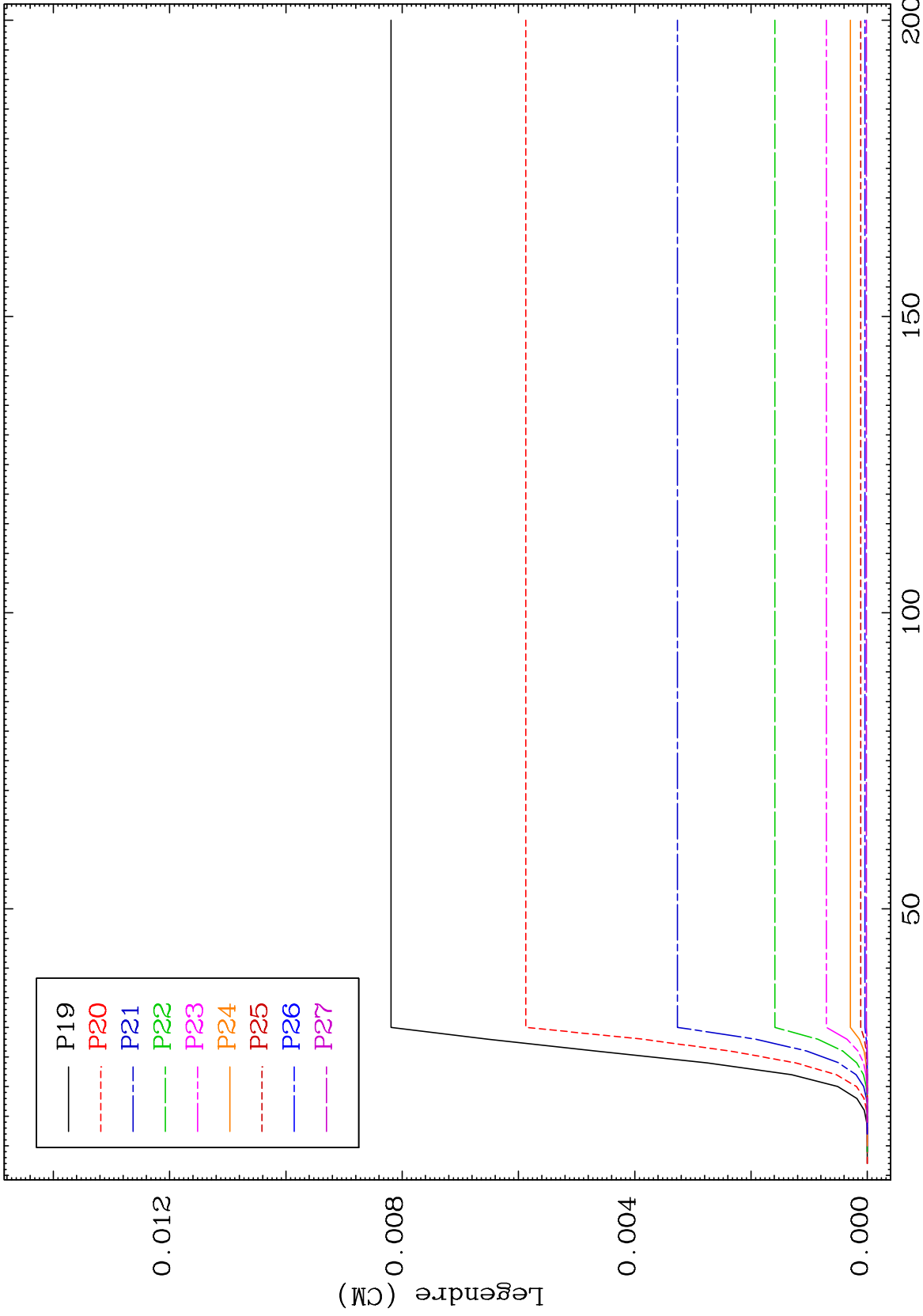


52 58-Ce-141

MAT 5840

MT= 59 (n,n') Level
Legendre Coefficients

58-Ce-141



53

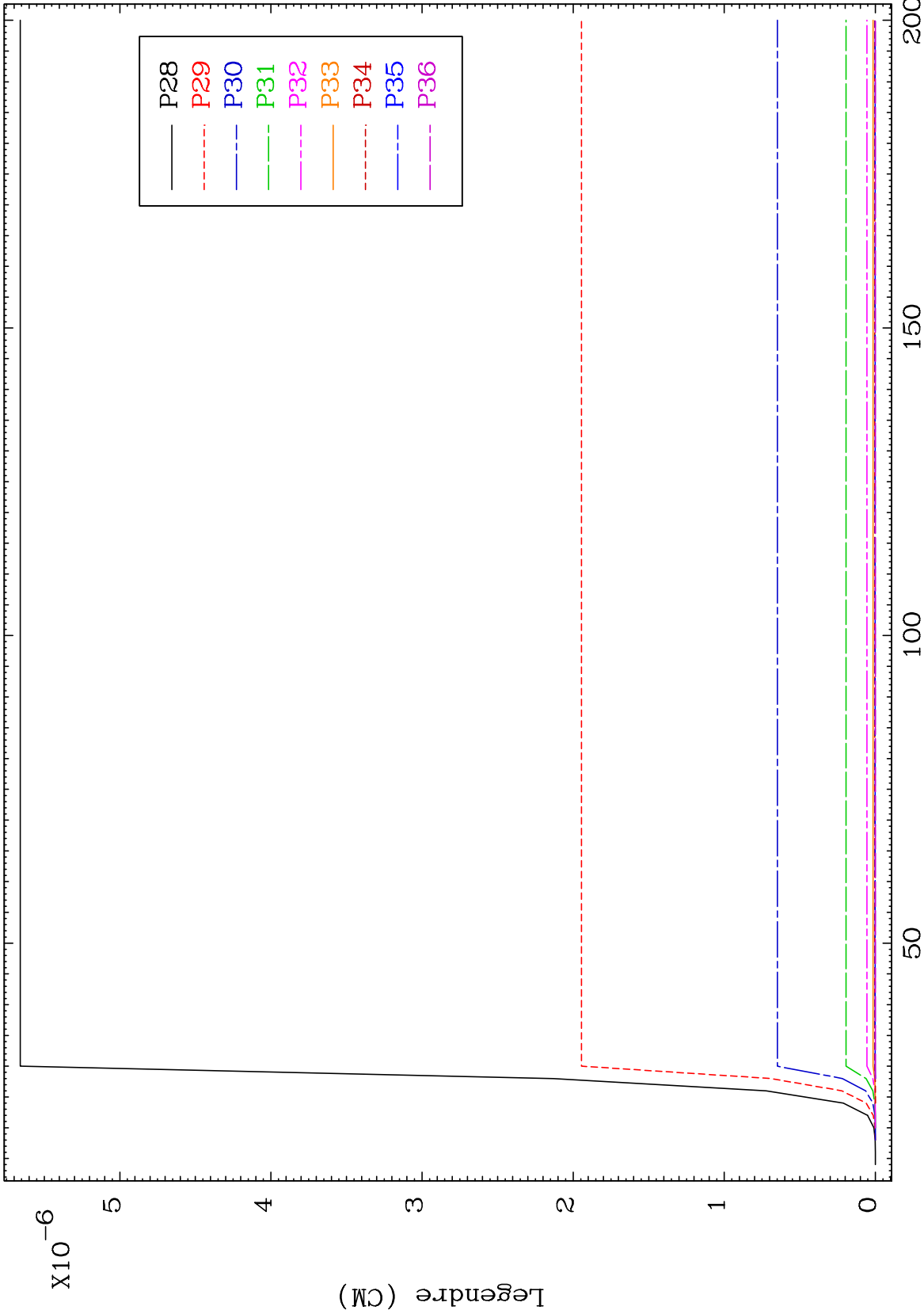
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 59 (n,n') Level
Legendre Coefficients

58-Ce-141

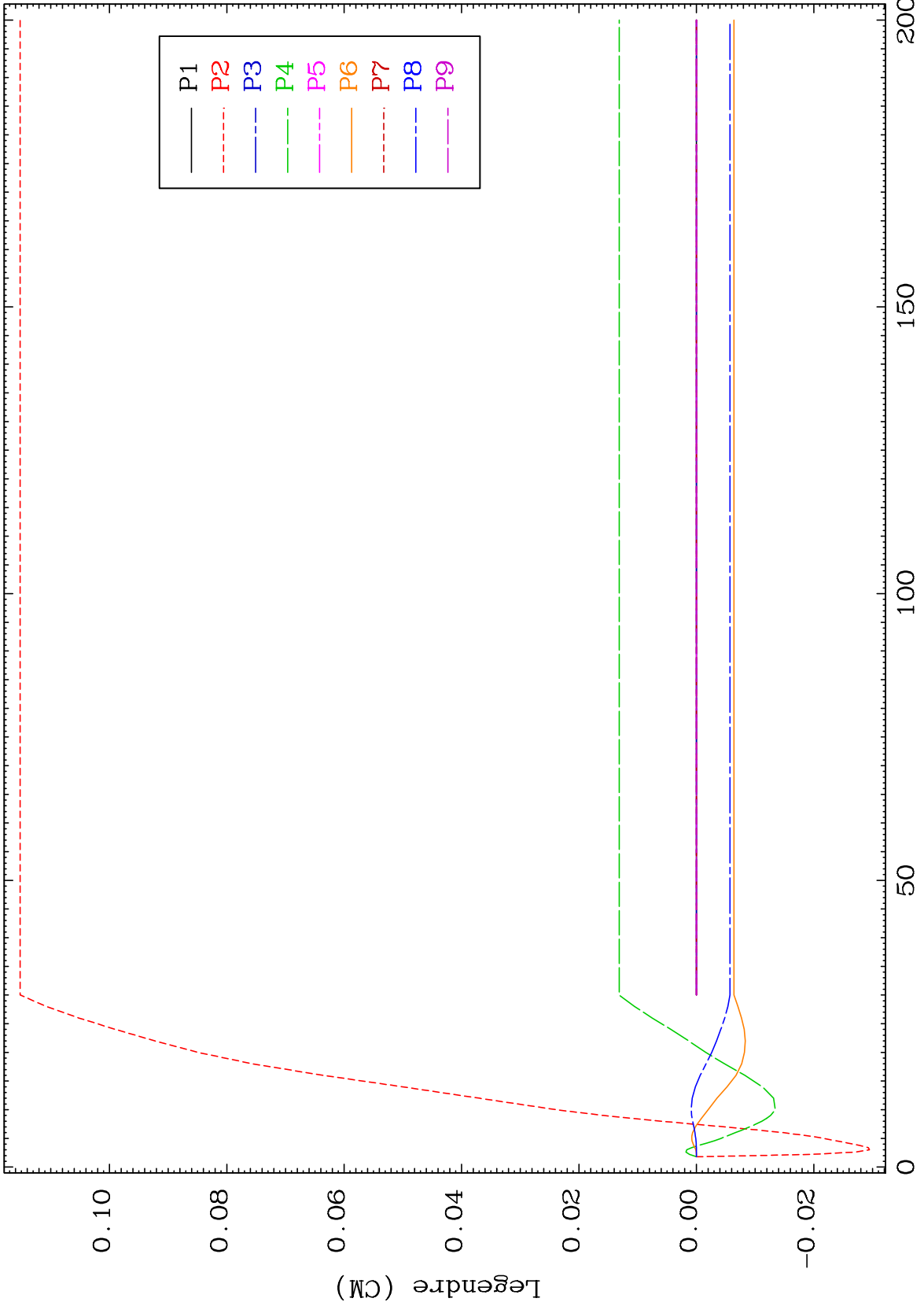


54

Incident Energy (MeV)

58-Ce-141

MAT 5840 MT= 60 (n,n') Level Legendre Coefficients 58-Ce-141

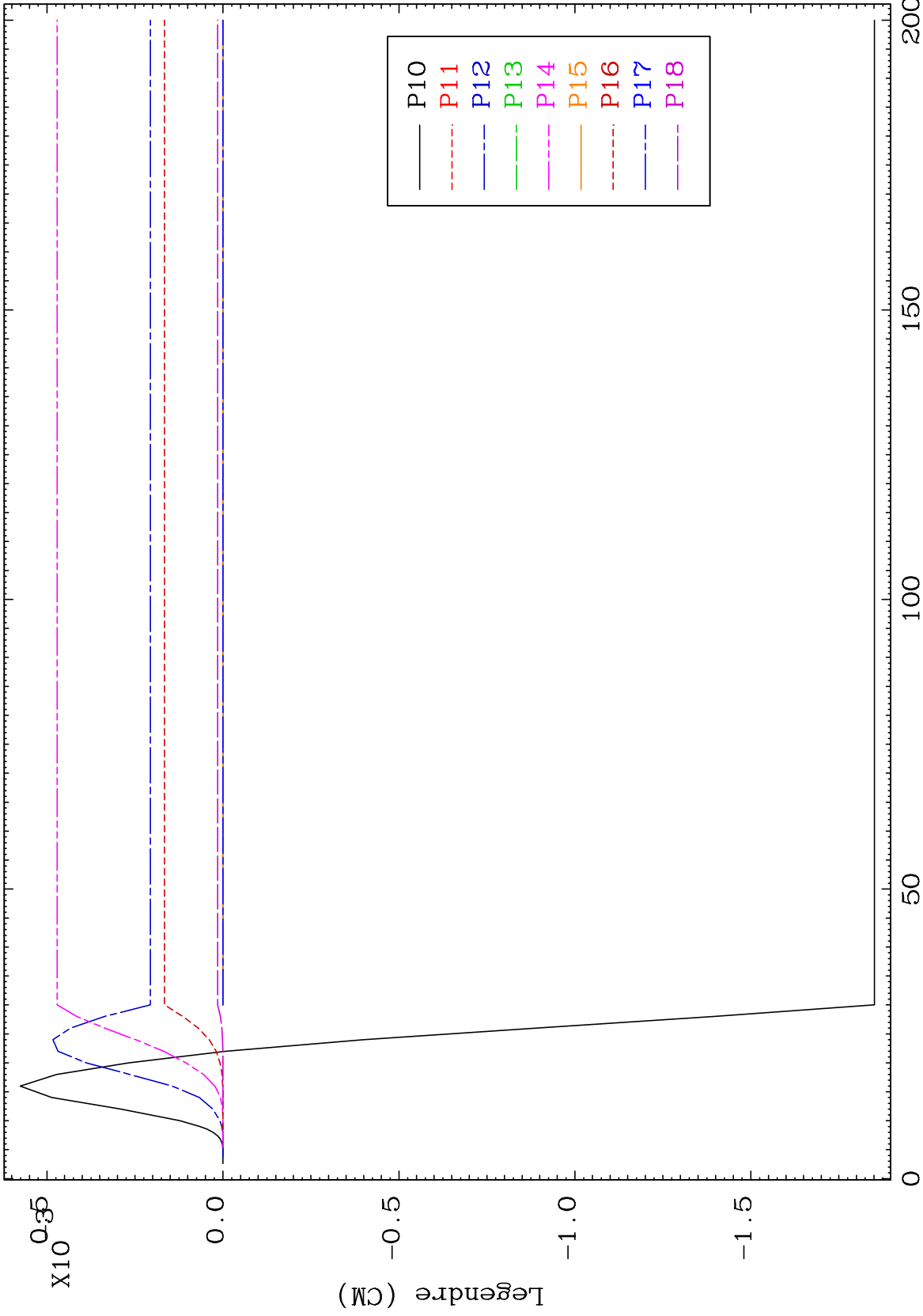


55 Incident Energy (MeV) 58-Ce-141

MAT 5840

MT= 60 (n,n') Level
Legendre Coefficients

58-Ce-141



56

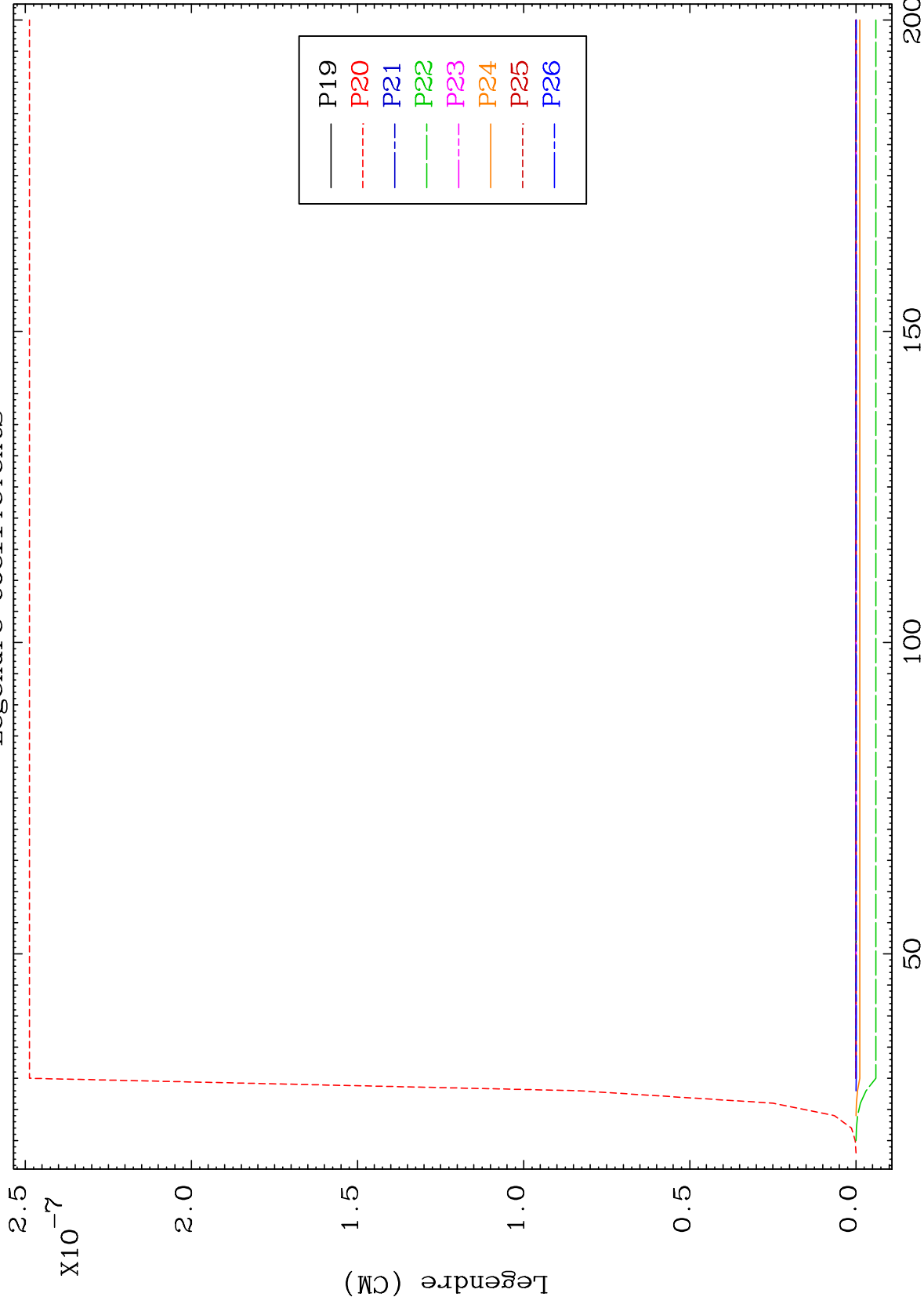
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 60 (n,n') Level
Legendre Coefficients

58-Ce-141



58-Ce-141

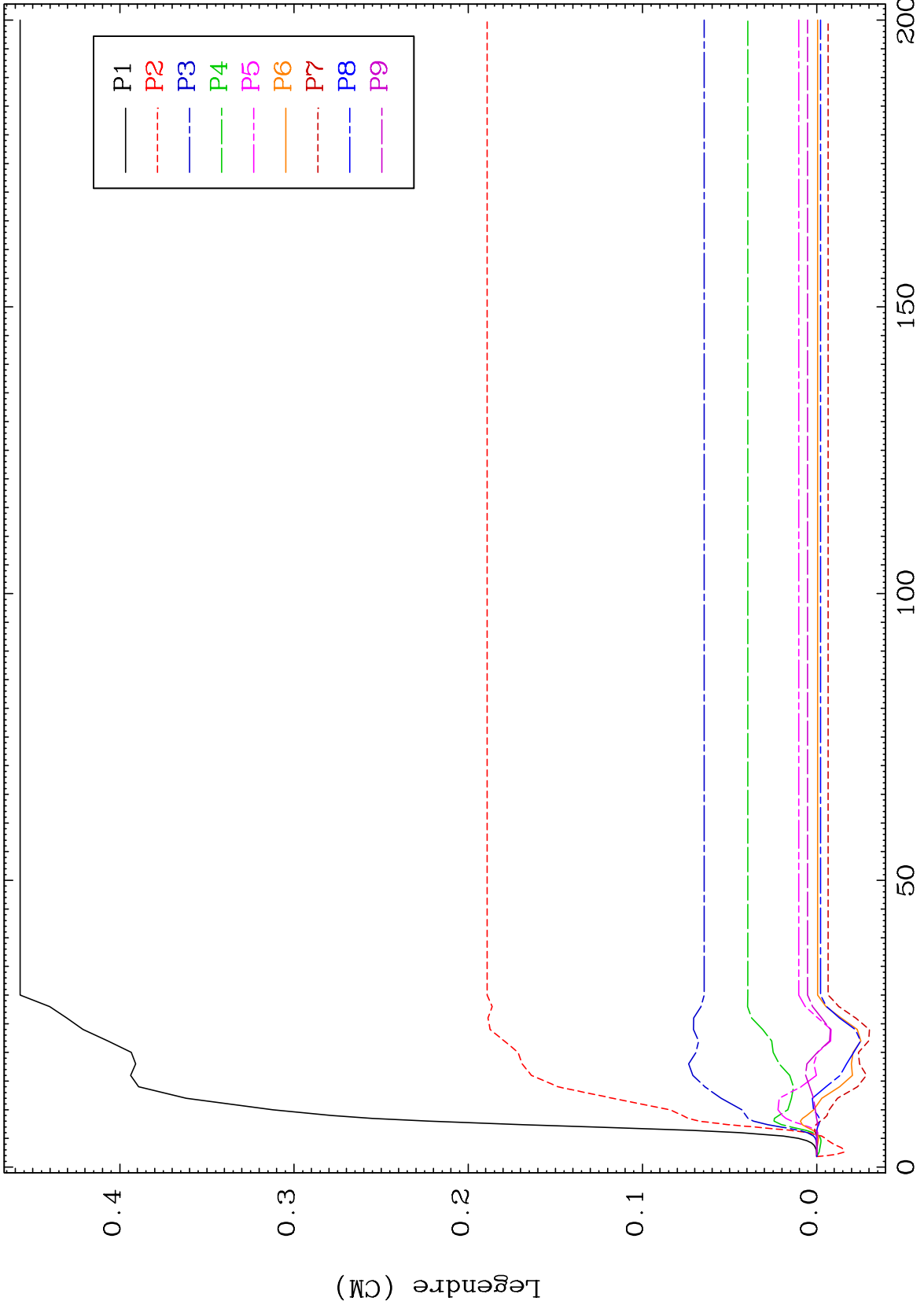
Incident Energy (MeV)

57

MAT 5840

MT= 61 (n,n') Level
Legendre Coefficients

58-Ce-141

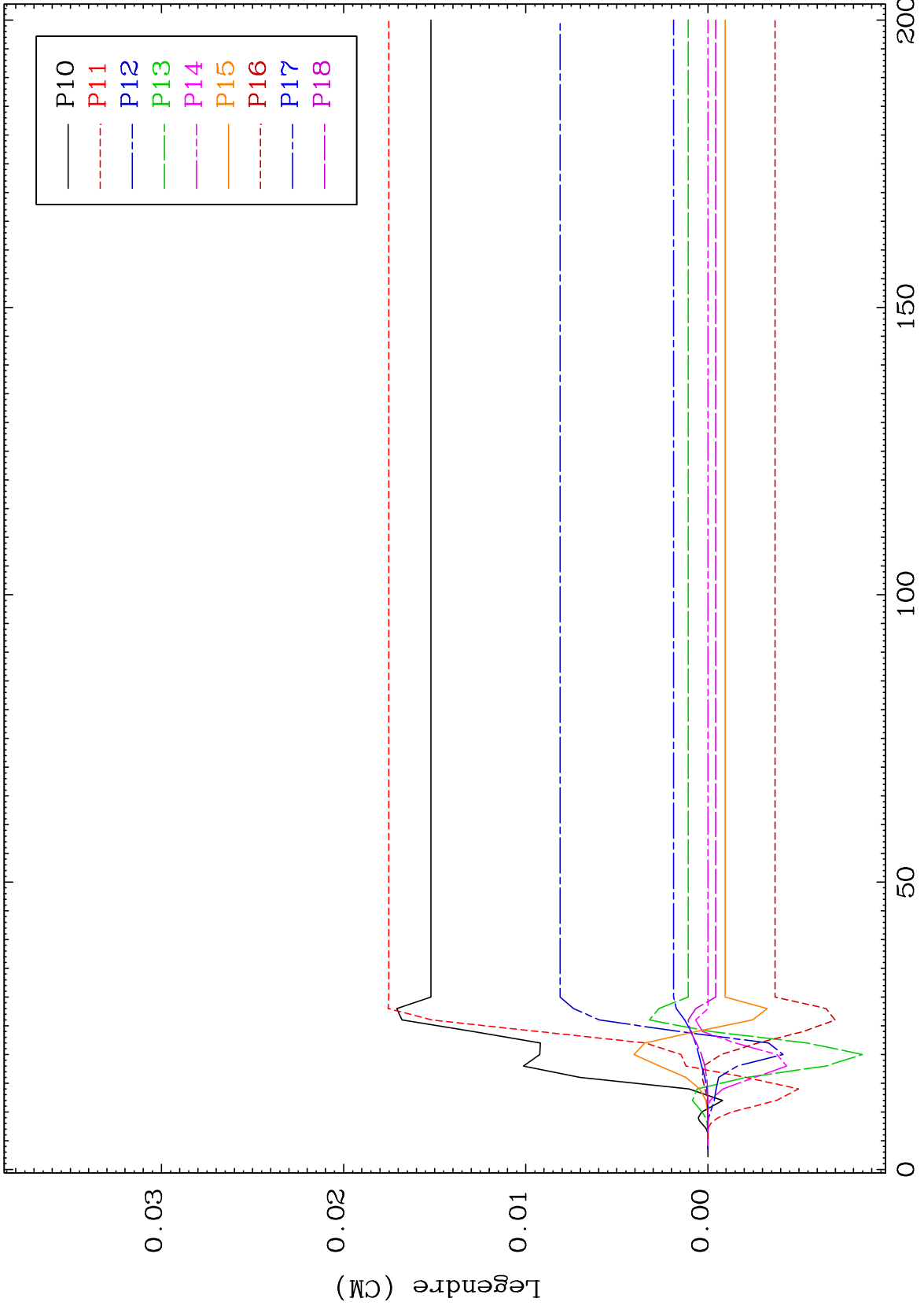


58

Incident Energy (MeV)

58-Ce-141

MAT 5840 MT= 61 (n,n') Level Legendre Coefficients 58-Ce-141

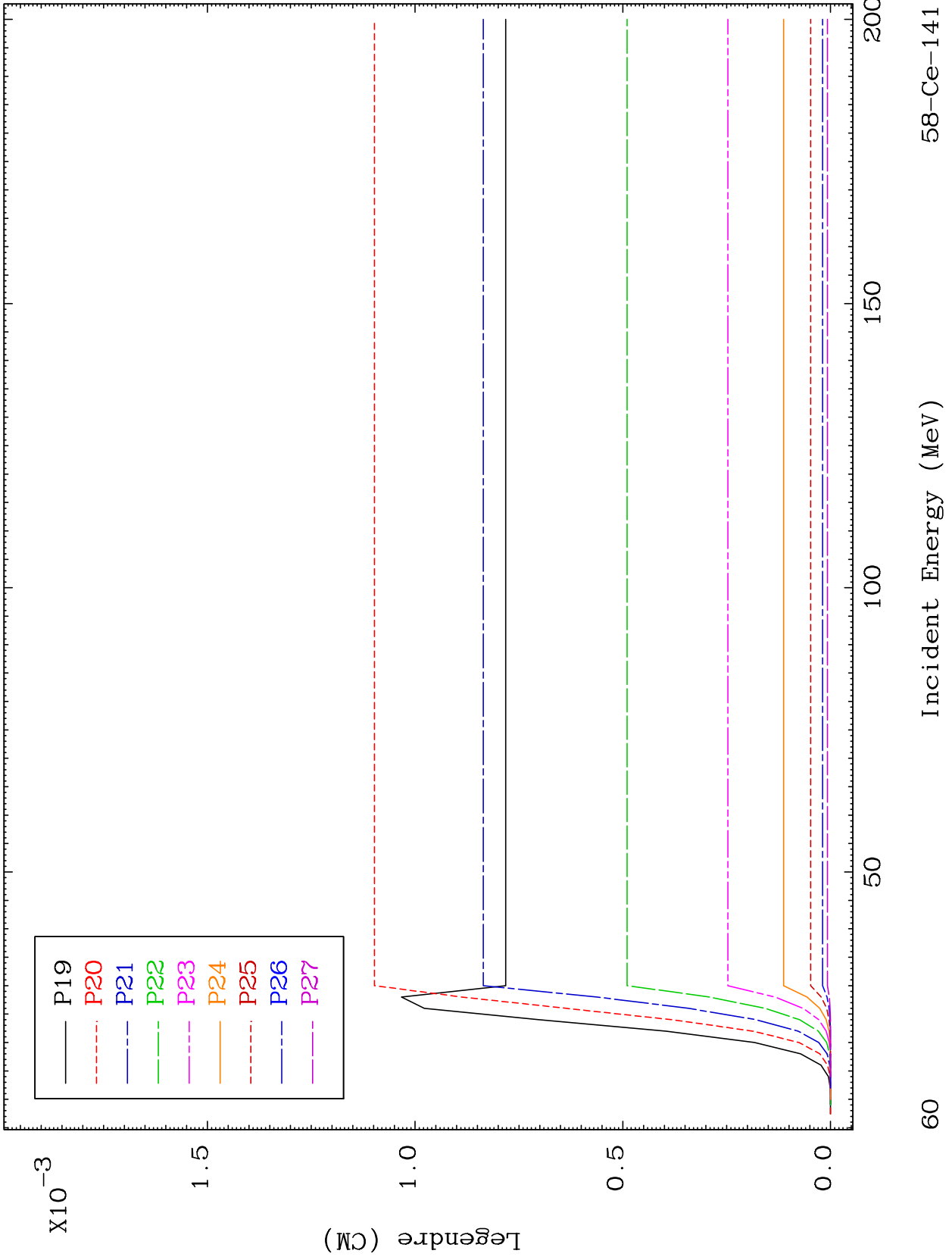


59 58-Ce-141

MAT 5840

MT= 61 (n,n') Level
Legendre Coefficients

58-Ce-141



60

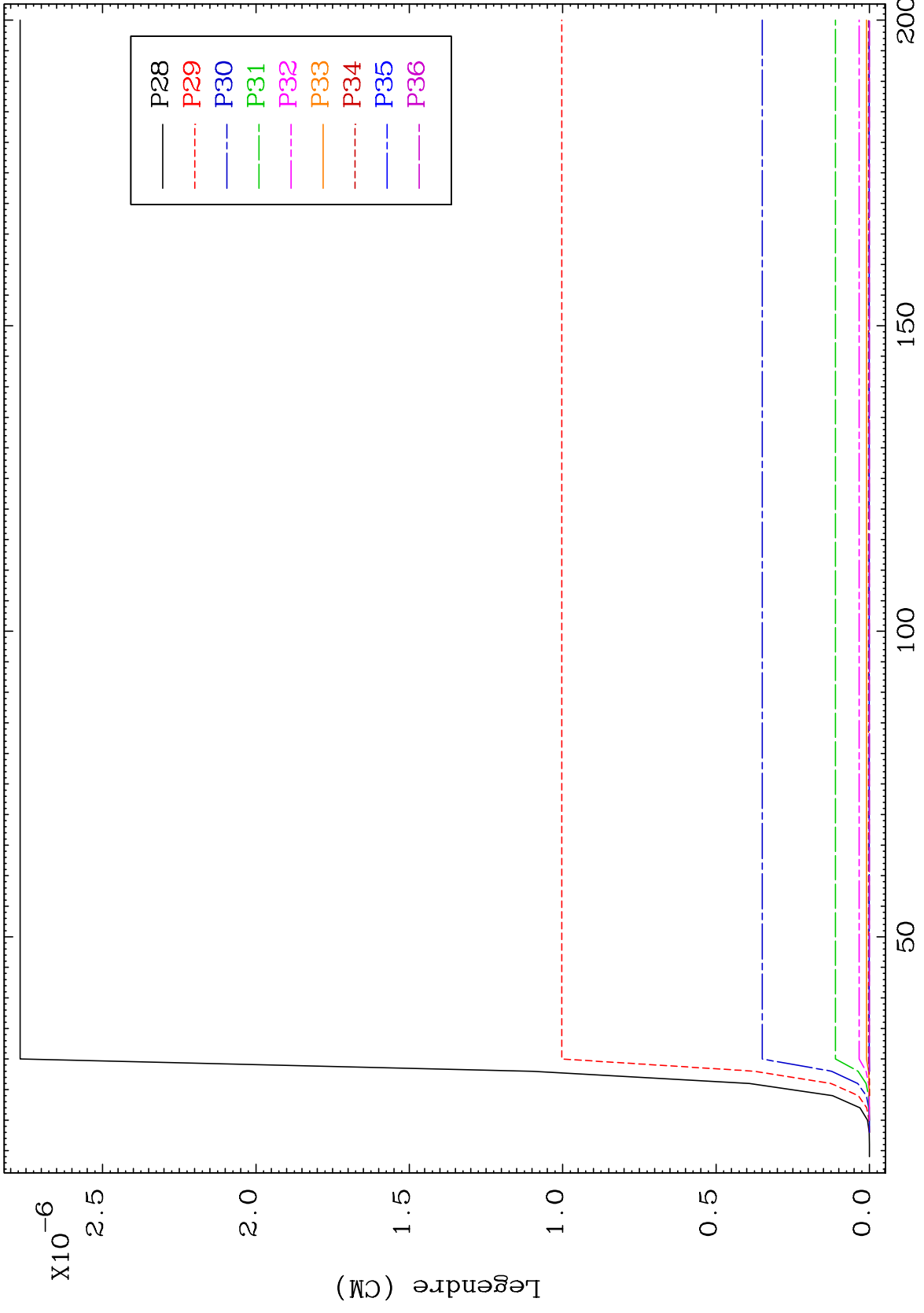
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 61 (n,n') Level
Legendre Coefficients

58-Ce-141



61

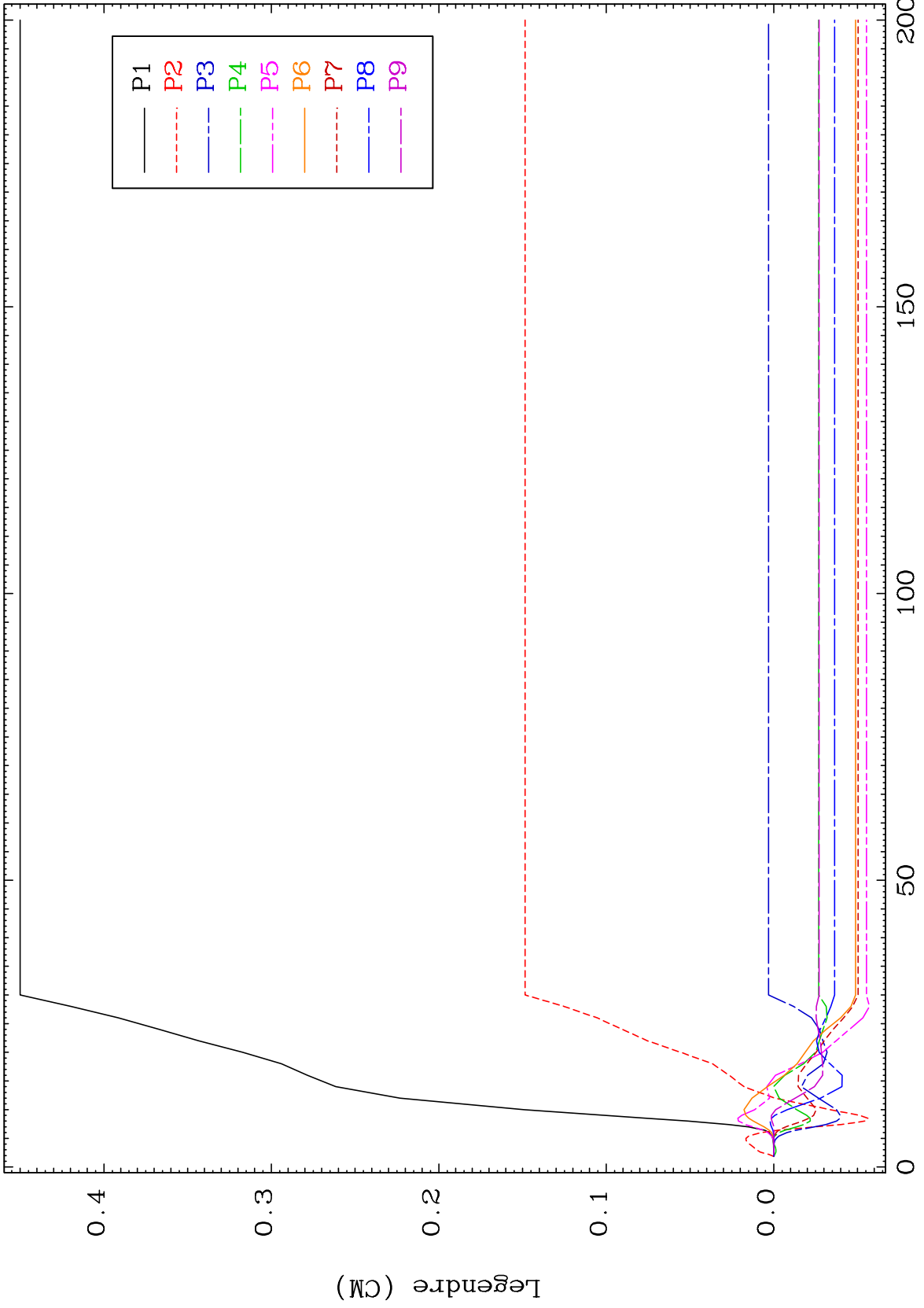
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 62 (n,n') Level
Legendre Coefficients

58-Ce-141



62

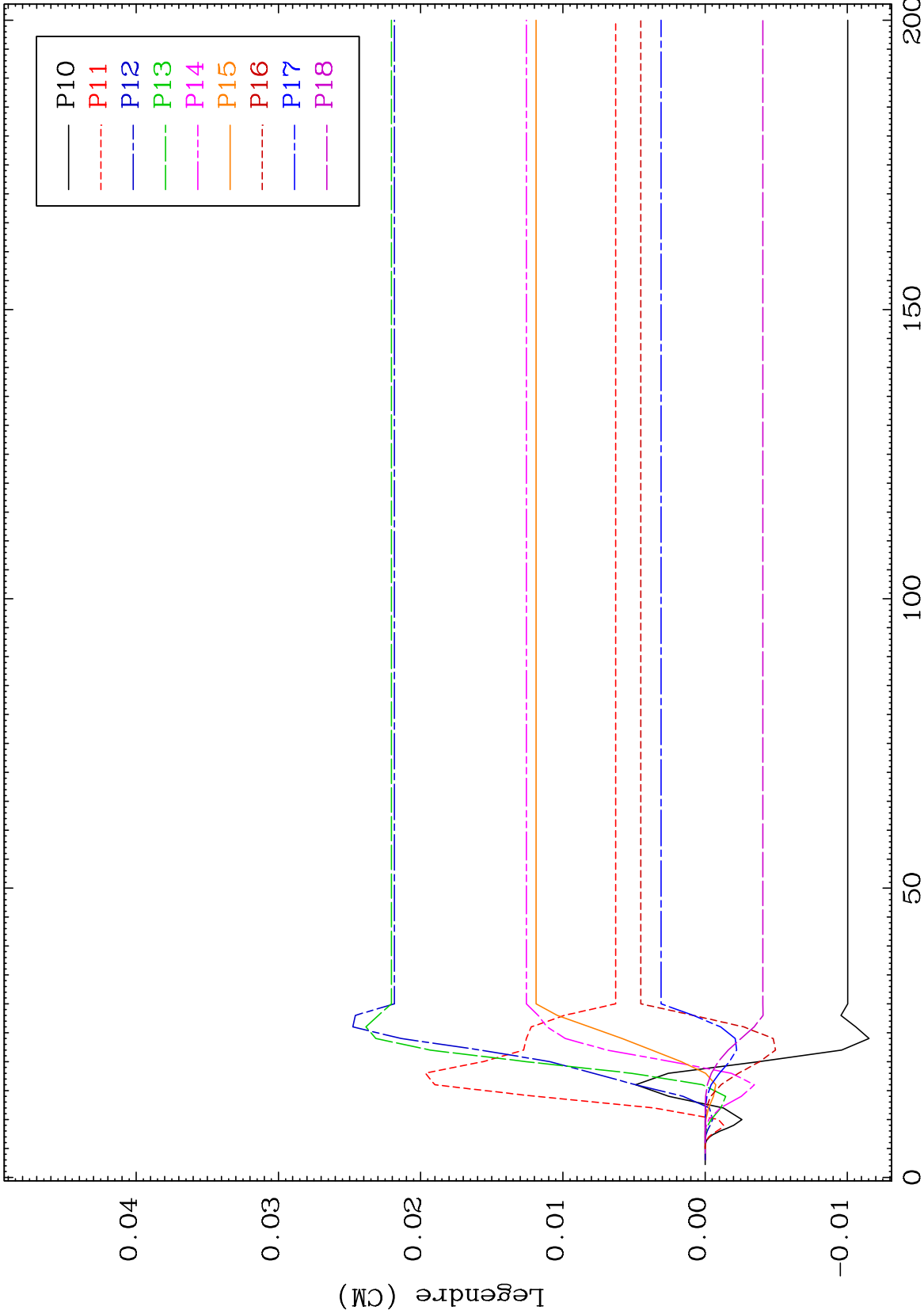
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 62 (n,n') Level
Legendre Coefficients

58-Ce-141



63

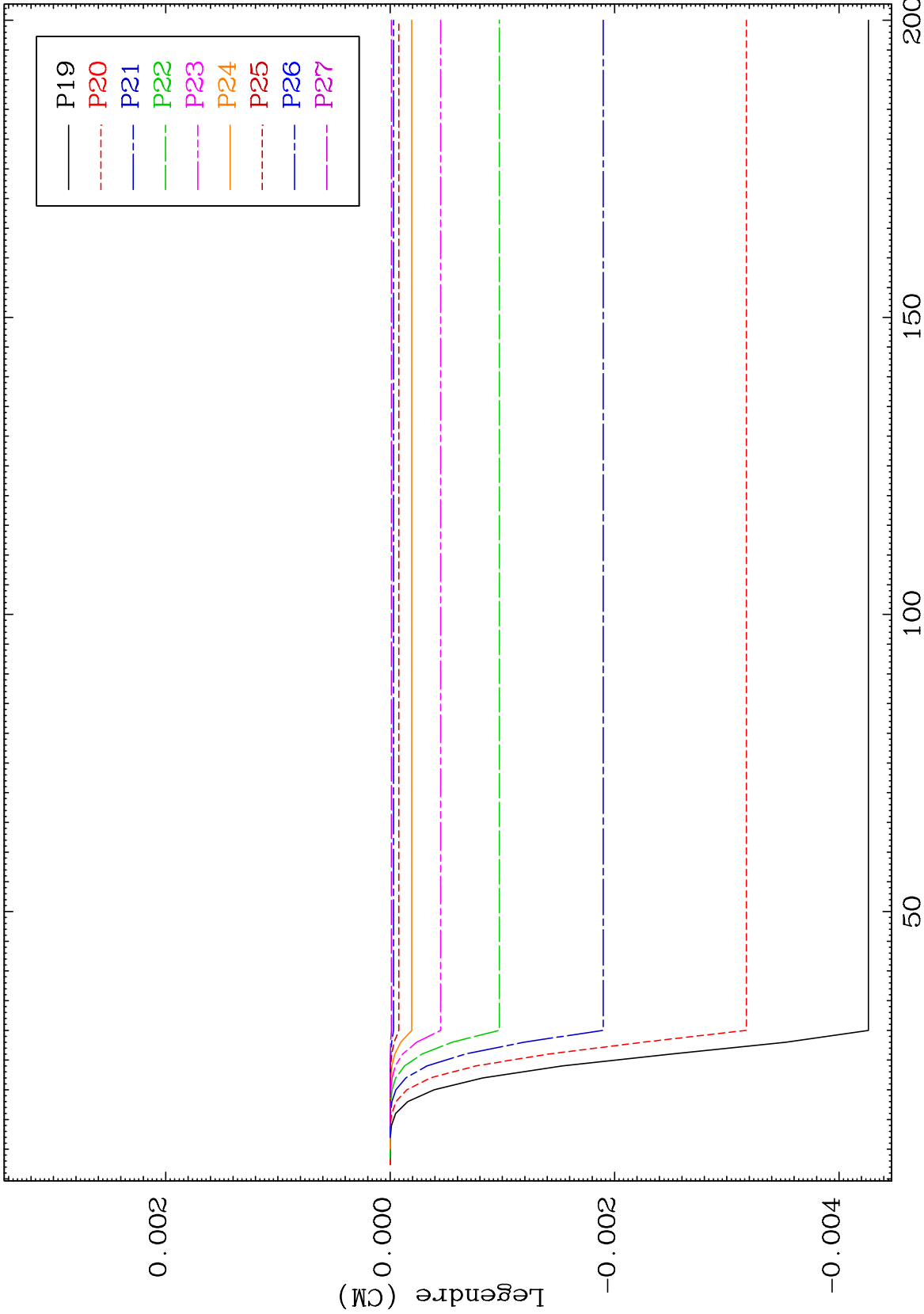
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 62 (n,n') Level
Legendre Coefficients

58-Ce-141

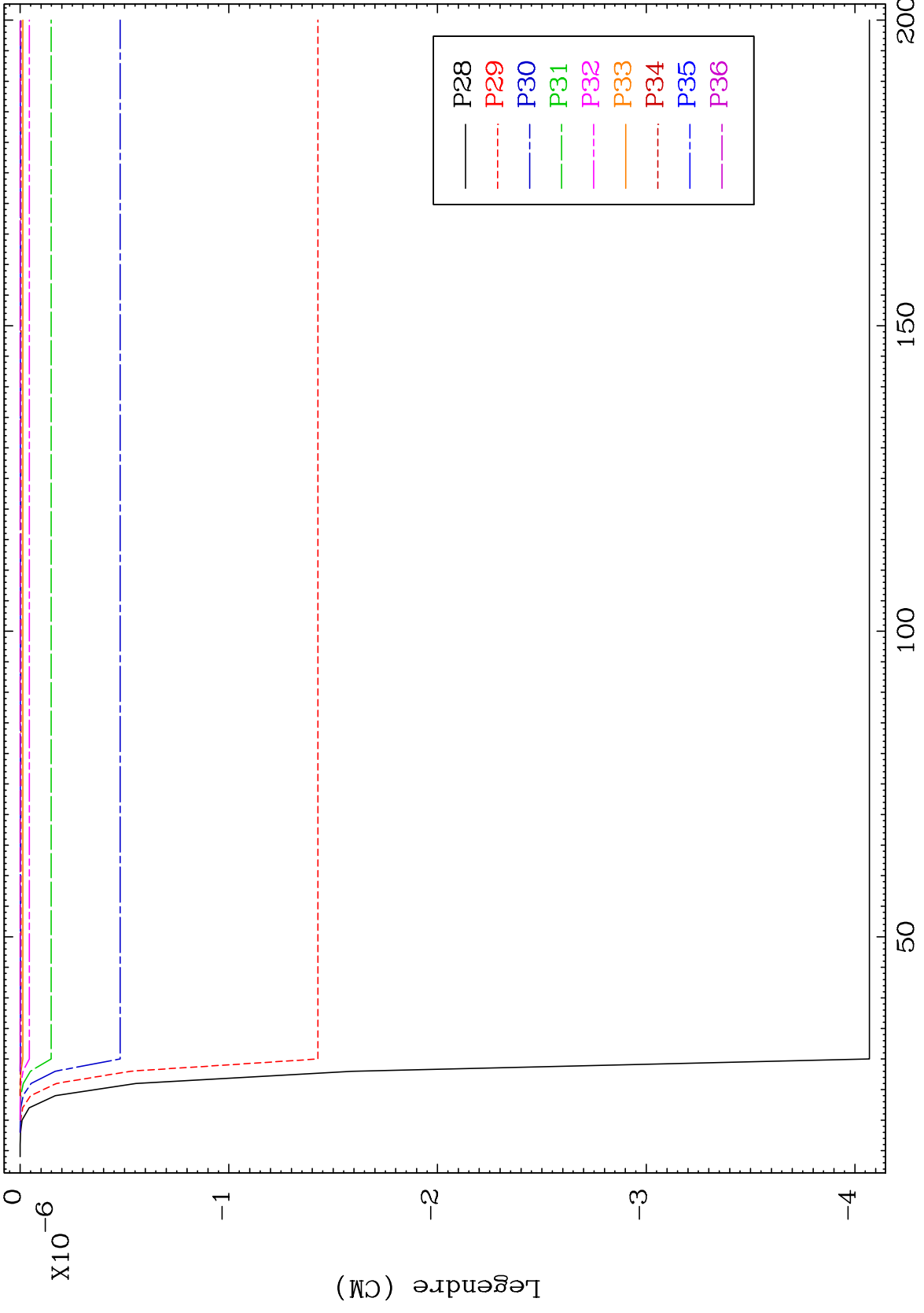


64

Incident Energy (MeV)

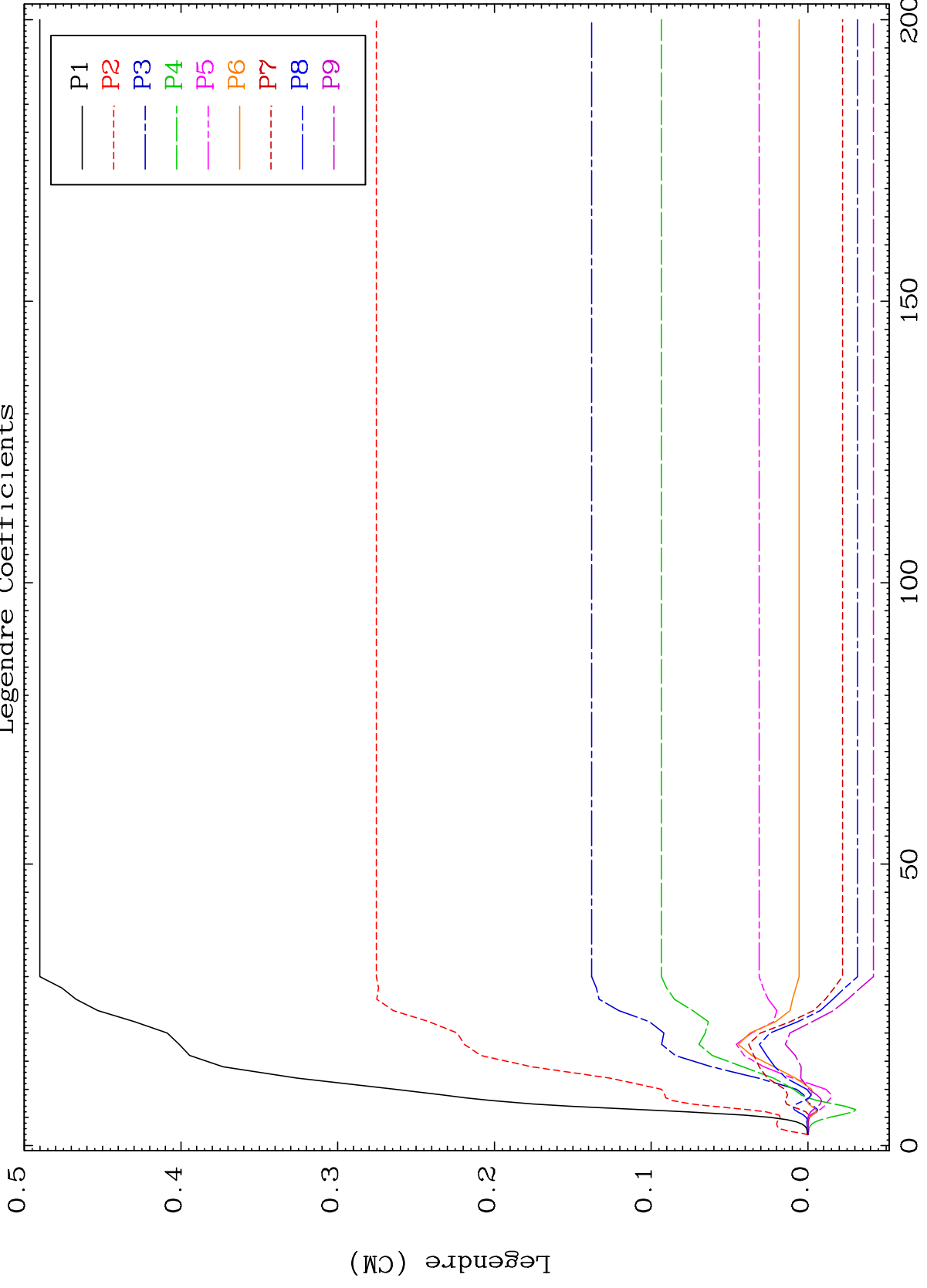
58-Ce-141

MAT 5840 MT= 62 (n,n') Level Legendre Coefficients 58-Ce-141



65 50 100 150 200 Incident Energy (MeV) 58-Ce-141

MAT 5840 MT= 63 (n,n') Level Legendre Coefficients 58-Ce-141

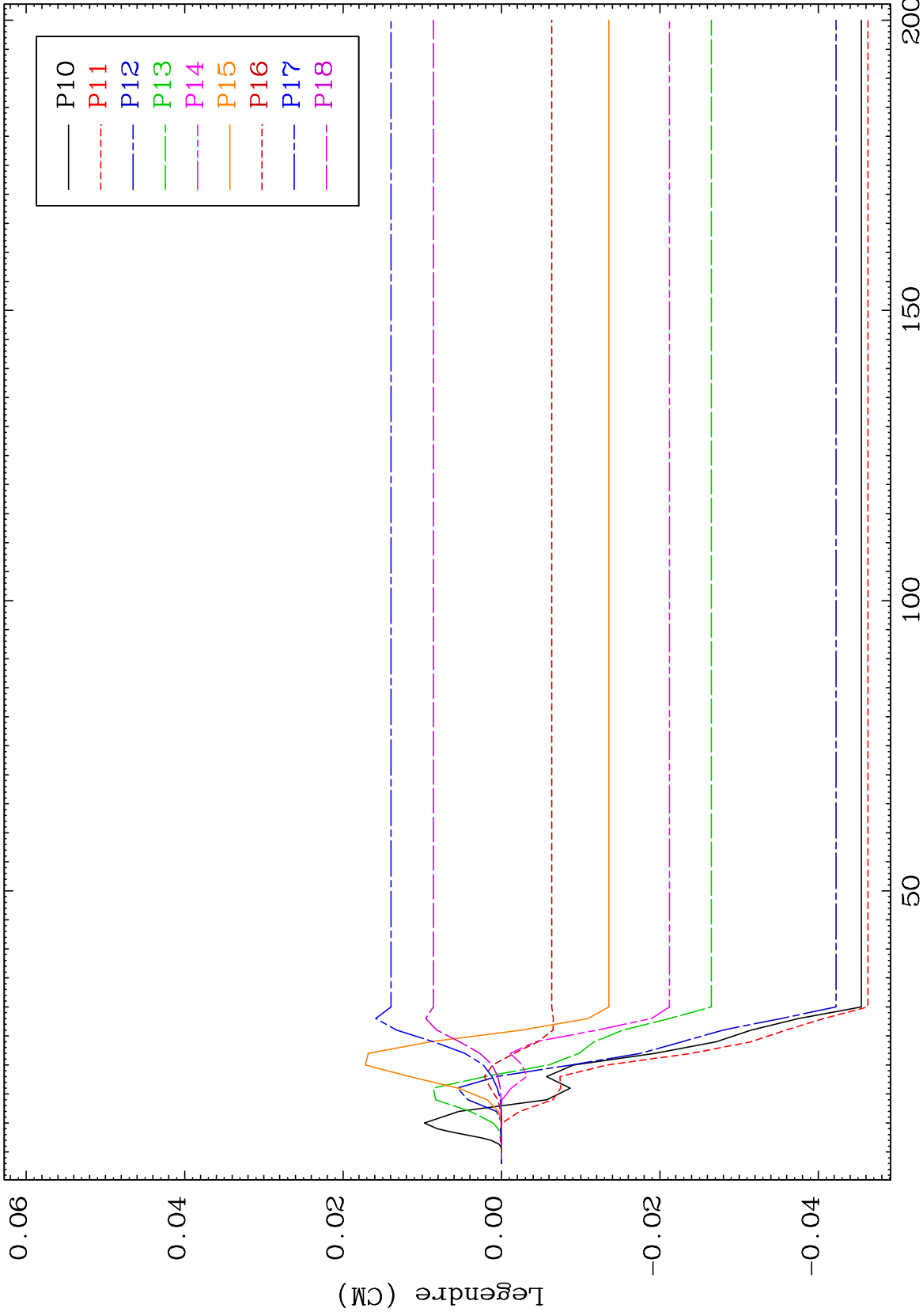


66 58-Ce-141

MAT 5840

MT= 63 (n,n') Level
Legendre Coefficients

58-Ce-141



67

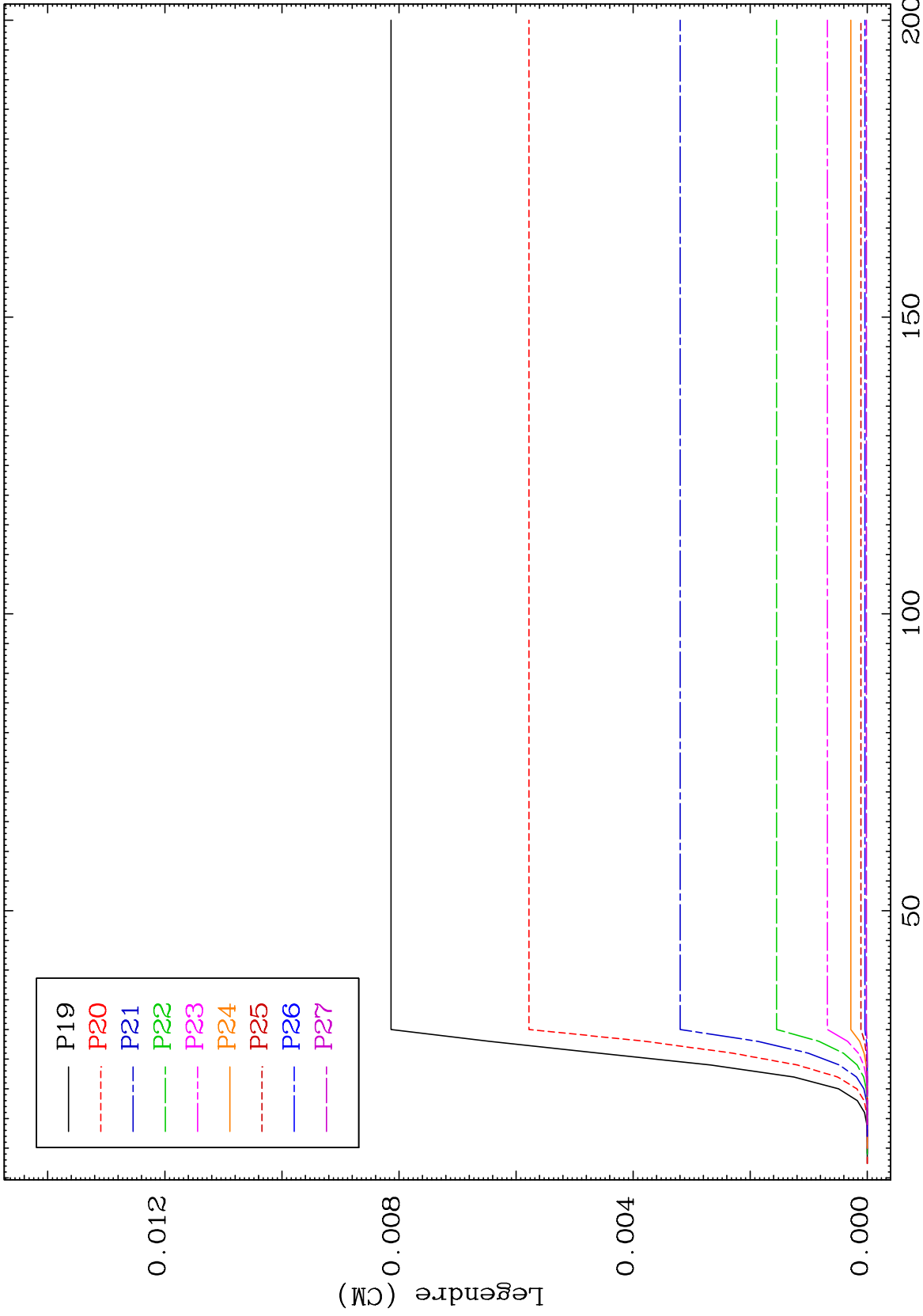
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 63 (n,n') Level
Legendre Coefficients

58-Ce-141



68

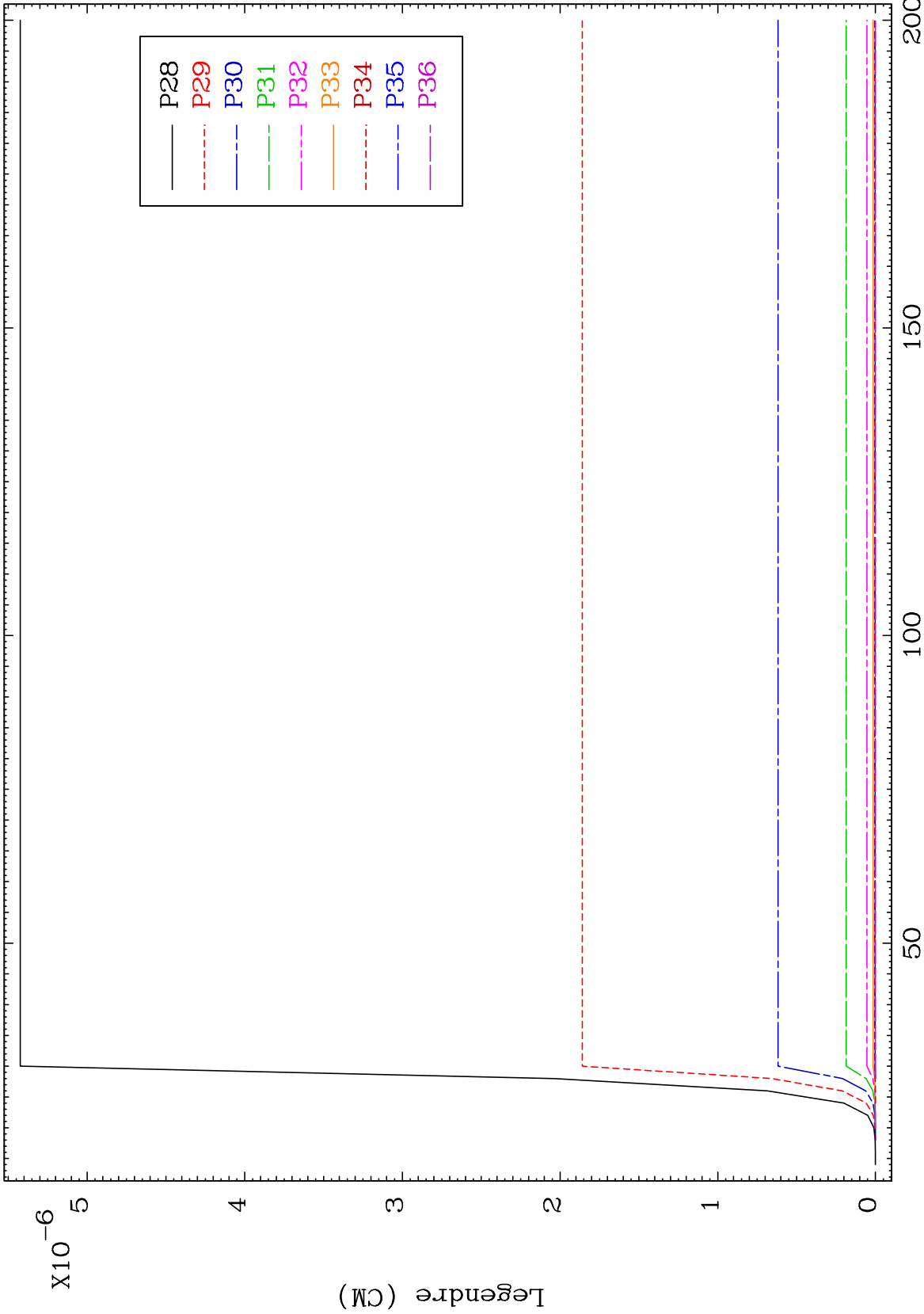
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 63 (n,n') Level
Legendre Coefficients

58-Ce-141



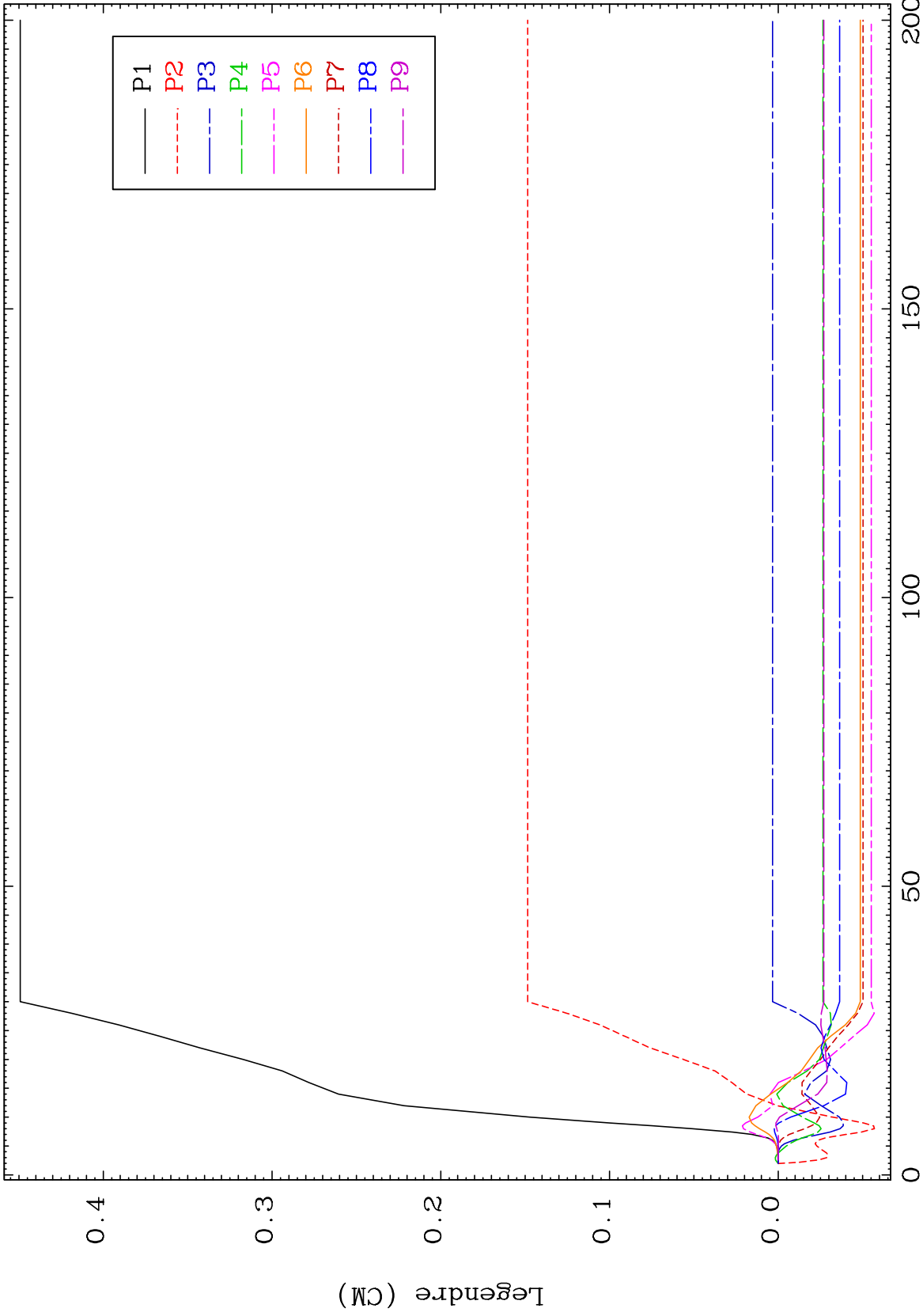
69

58-Ce-141

MAT 5840

MT= 64 (n,n') Level
Legendre Coefficients

58-Ce-141



70

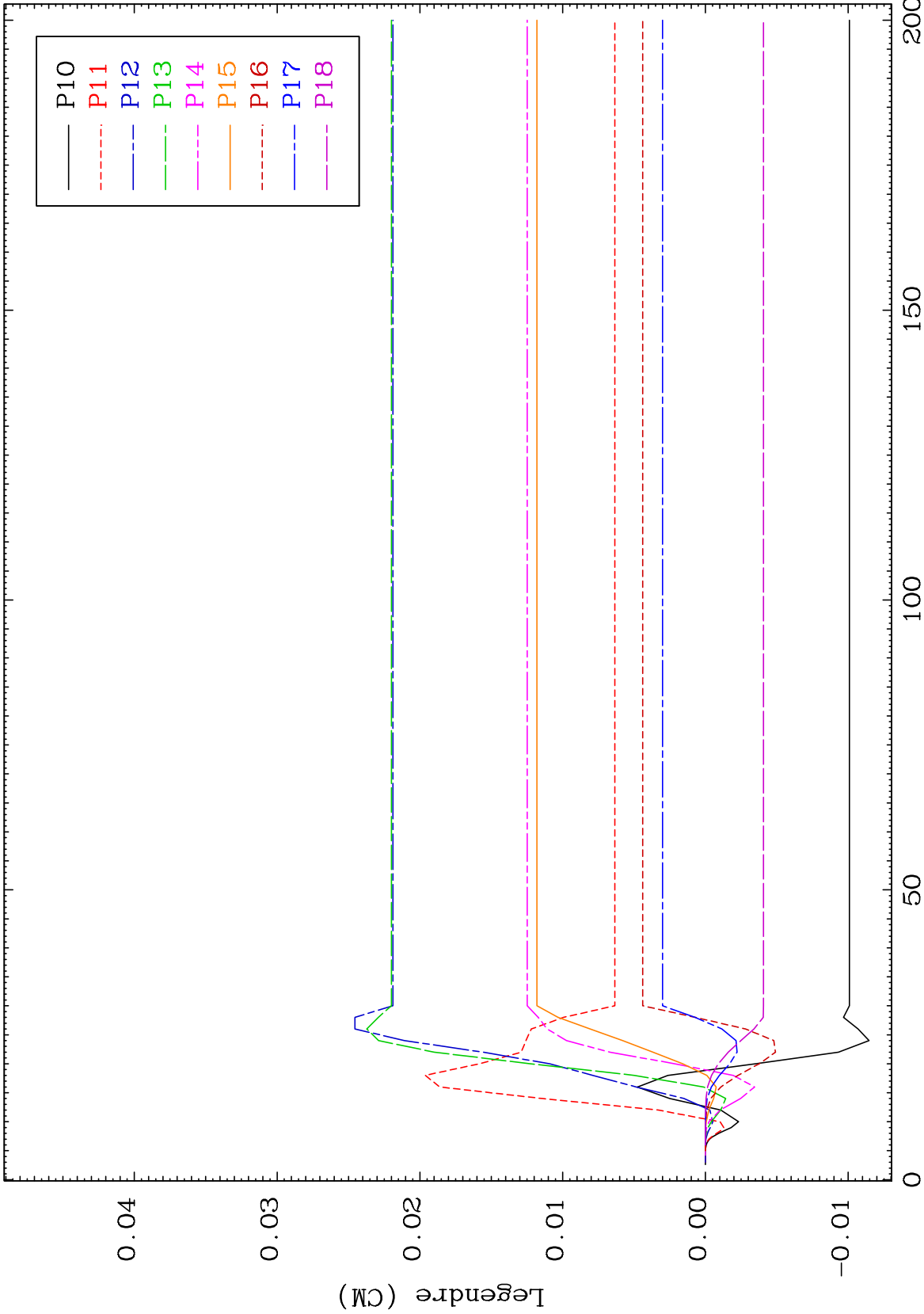
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 64 (n,n') Level
Legendre Coefficients

58-Ce-141



71

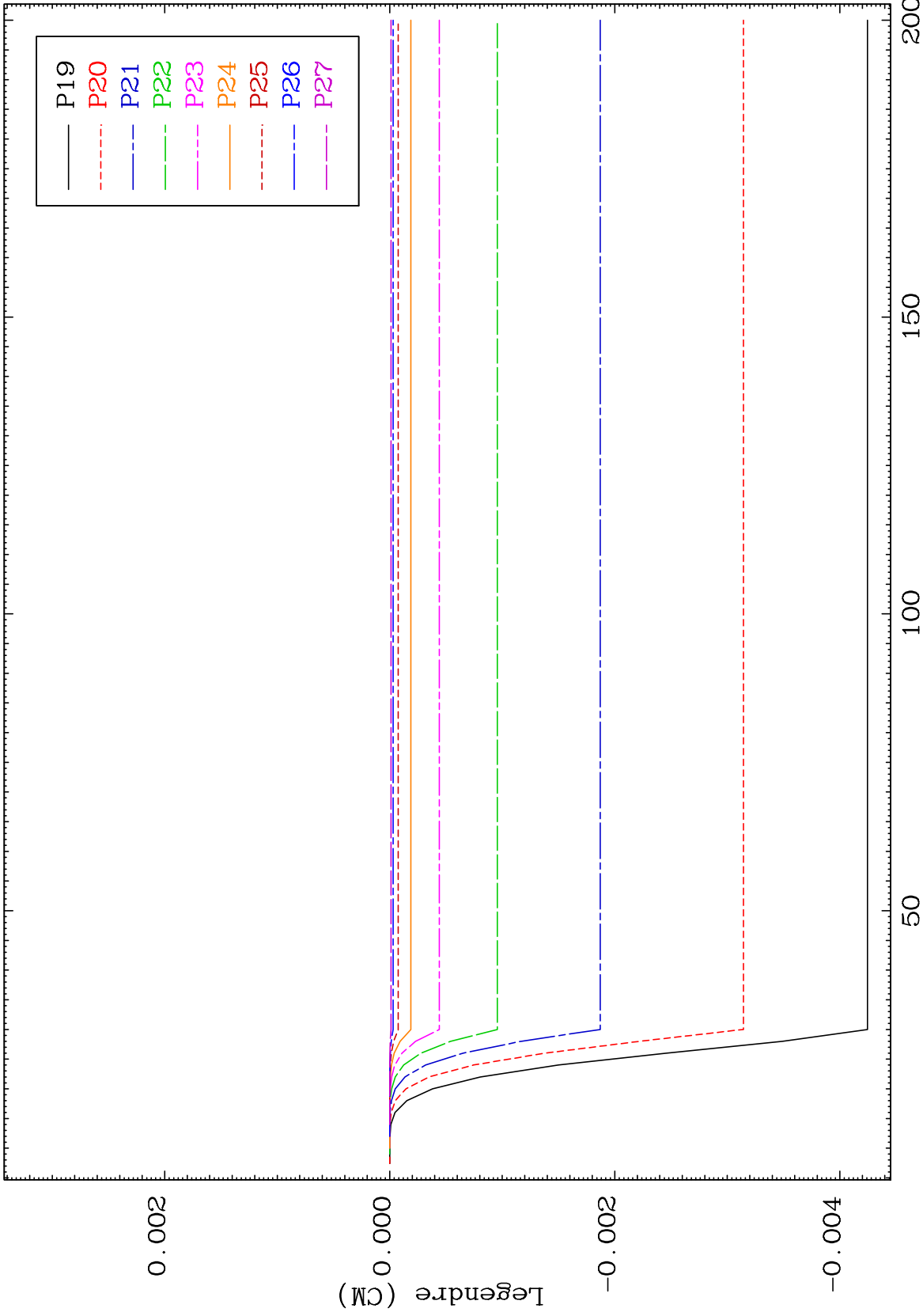
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 64 (n,n') Level
Legendre Coefficients

58-Ce-141



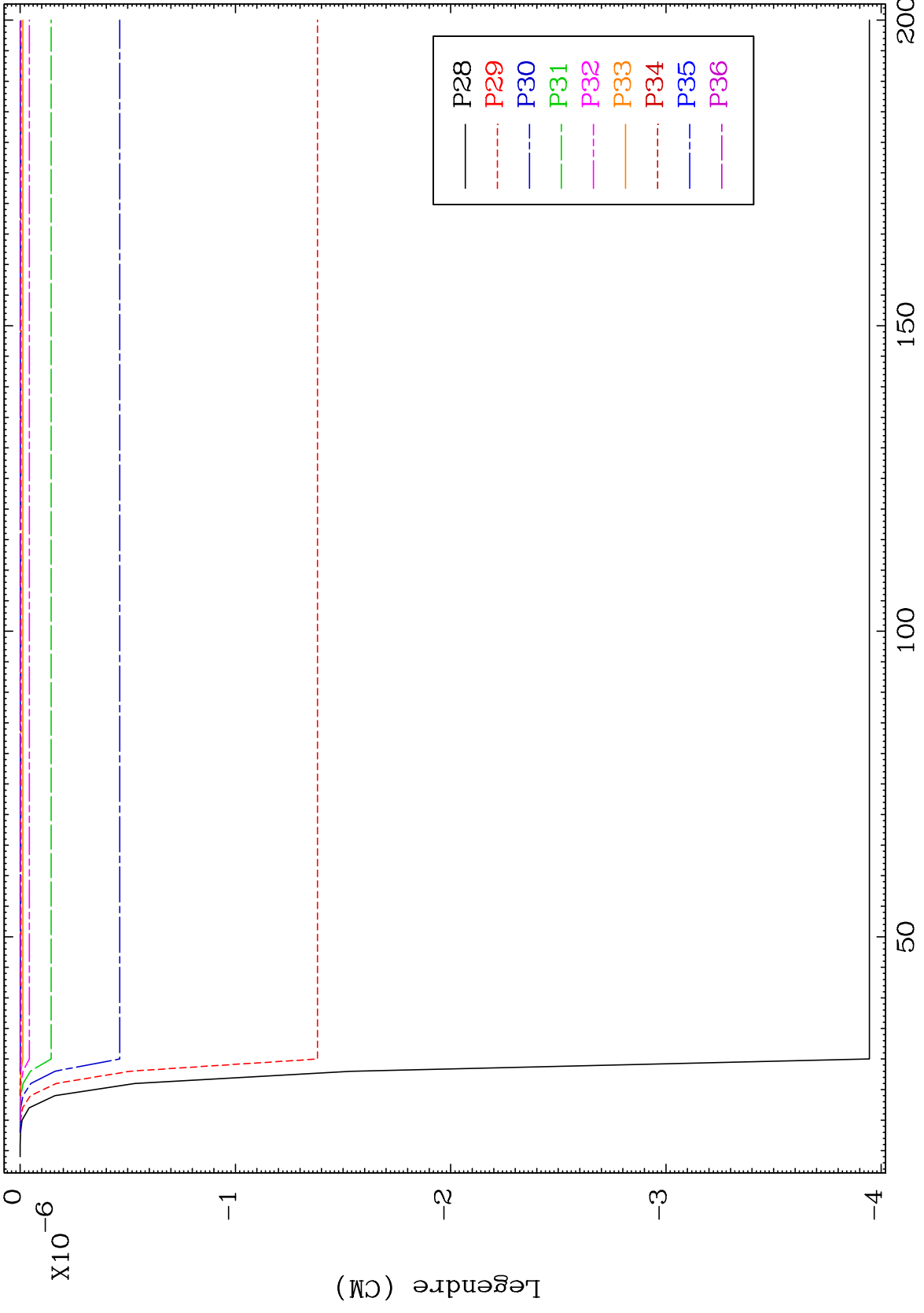
72

Incident Energy (MeV)

58-Ce-141

MAT 5840 MT= 64 (n,n') Level 58-Ce-141

Legendre Coefficients

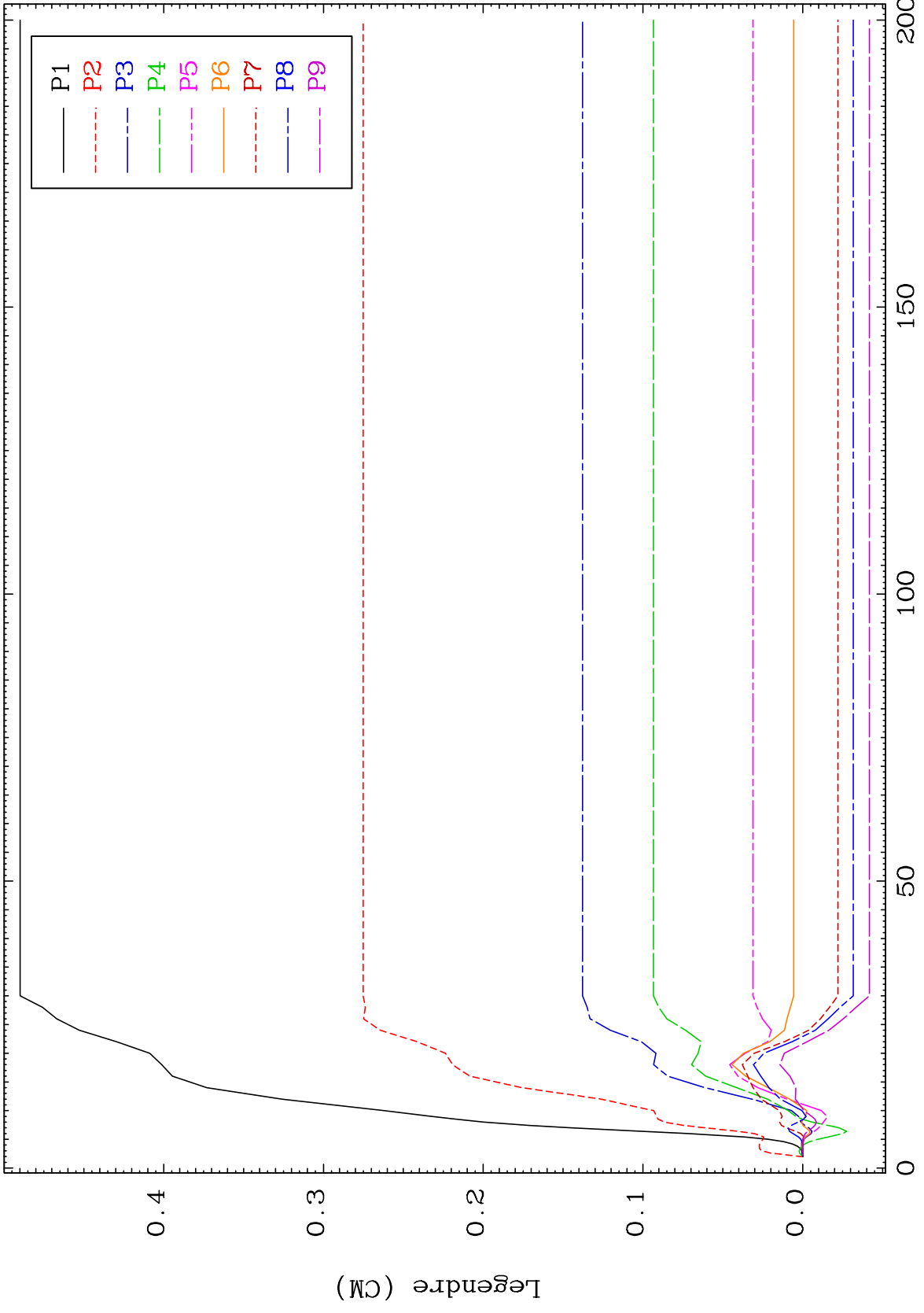


73 58-Ce-141

MAT 5840

MT= 65 (n,n') Level
Legendre Coefficients

58-Ce-141



74

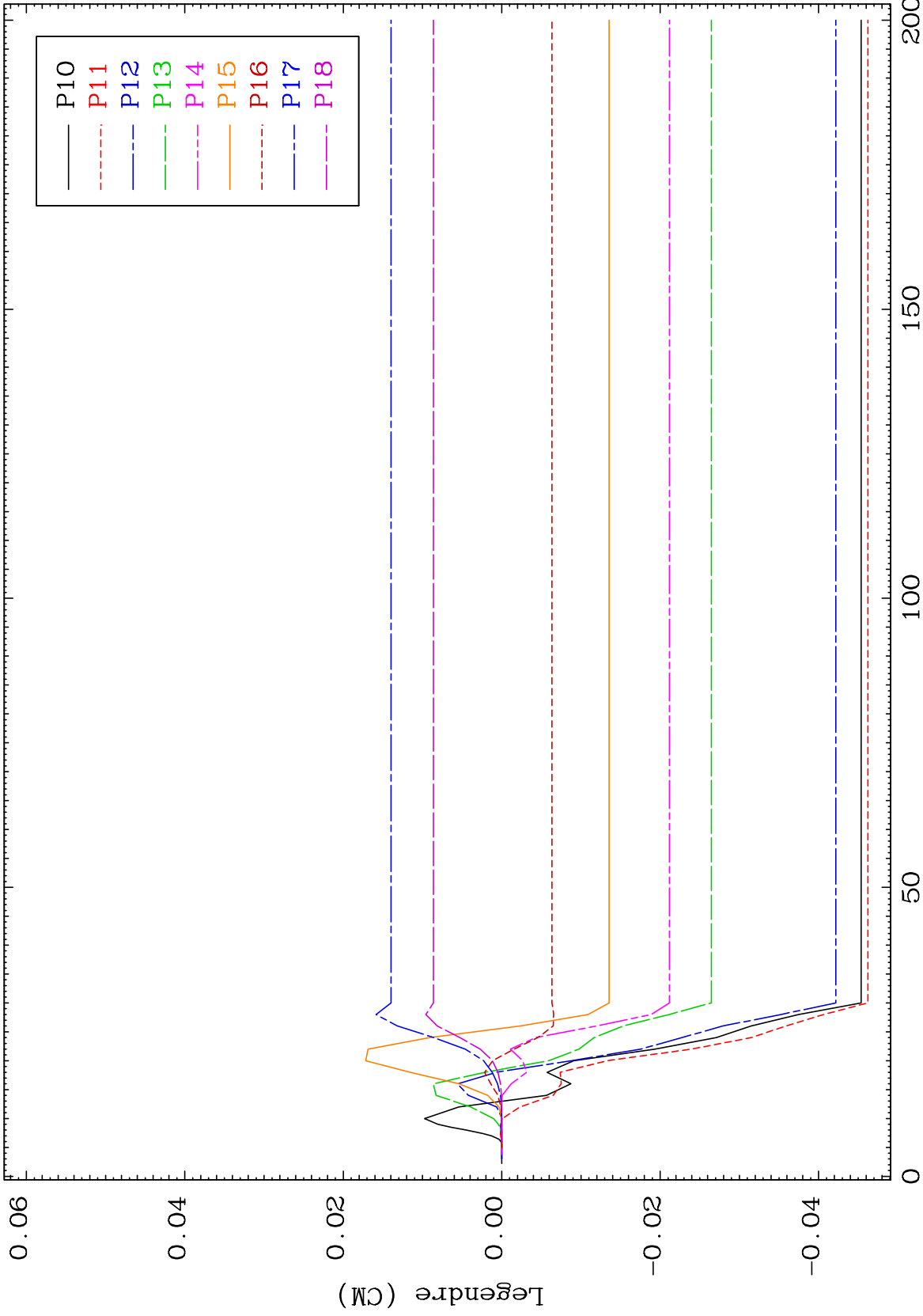
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 65 (n,n') Level
Legendre Coefficients

58-Ce-141



75

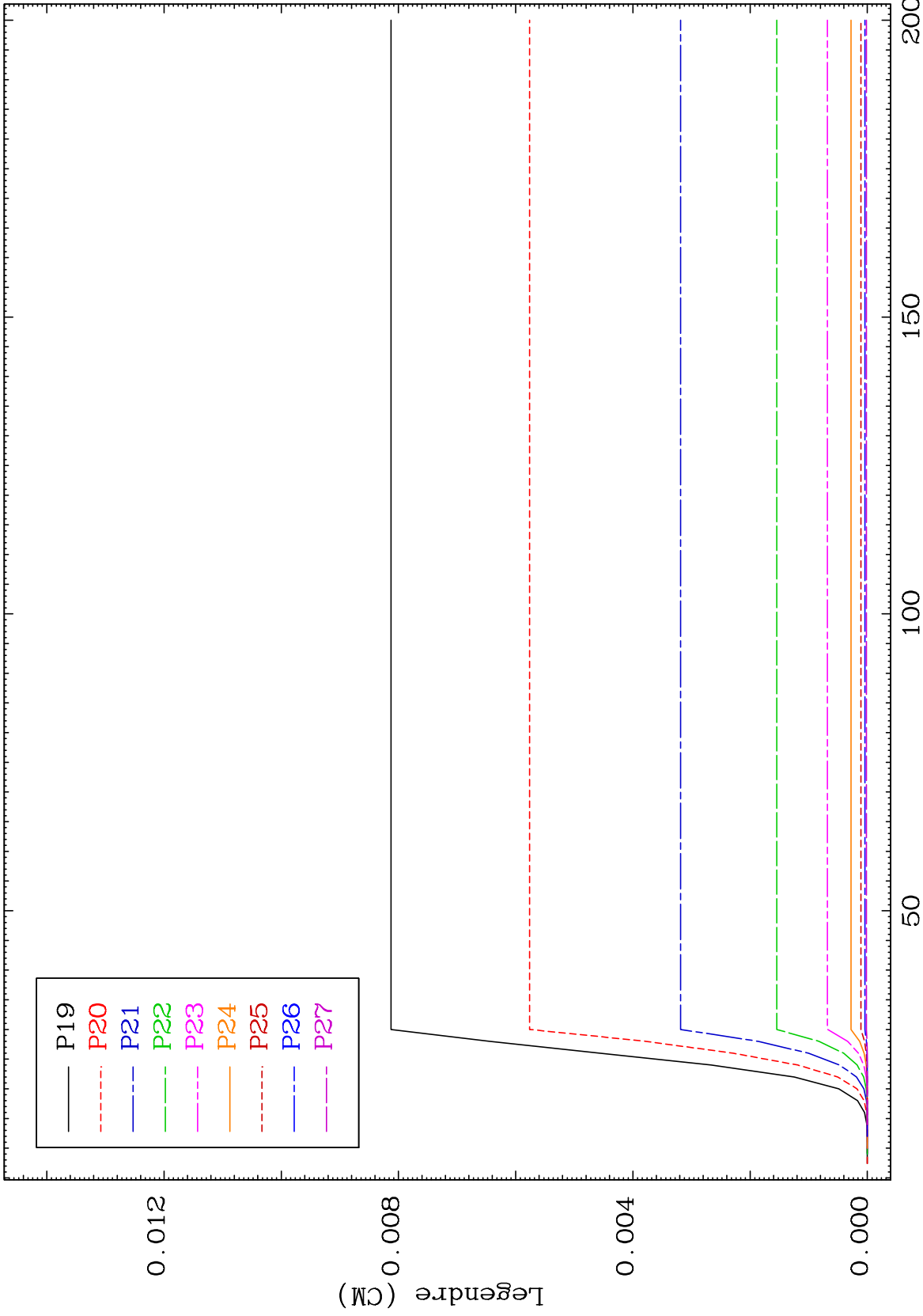
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 65 (n,n') Level
Legendre Coefficients

58-Ce-141



76

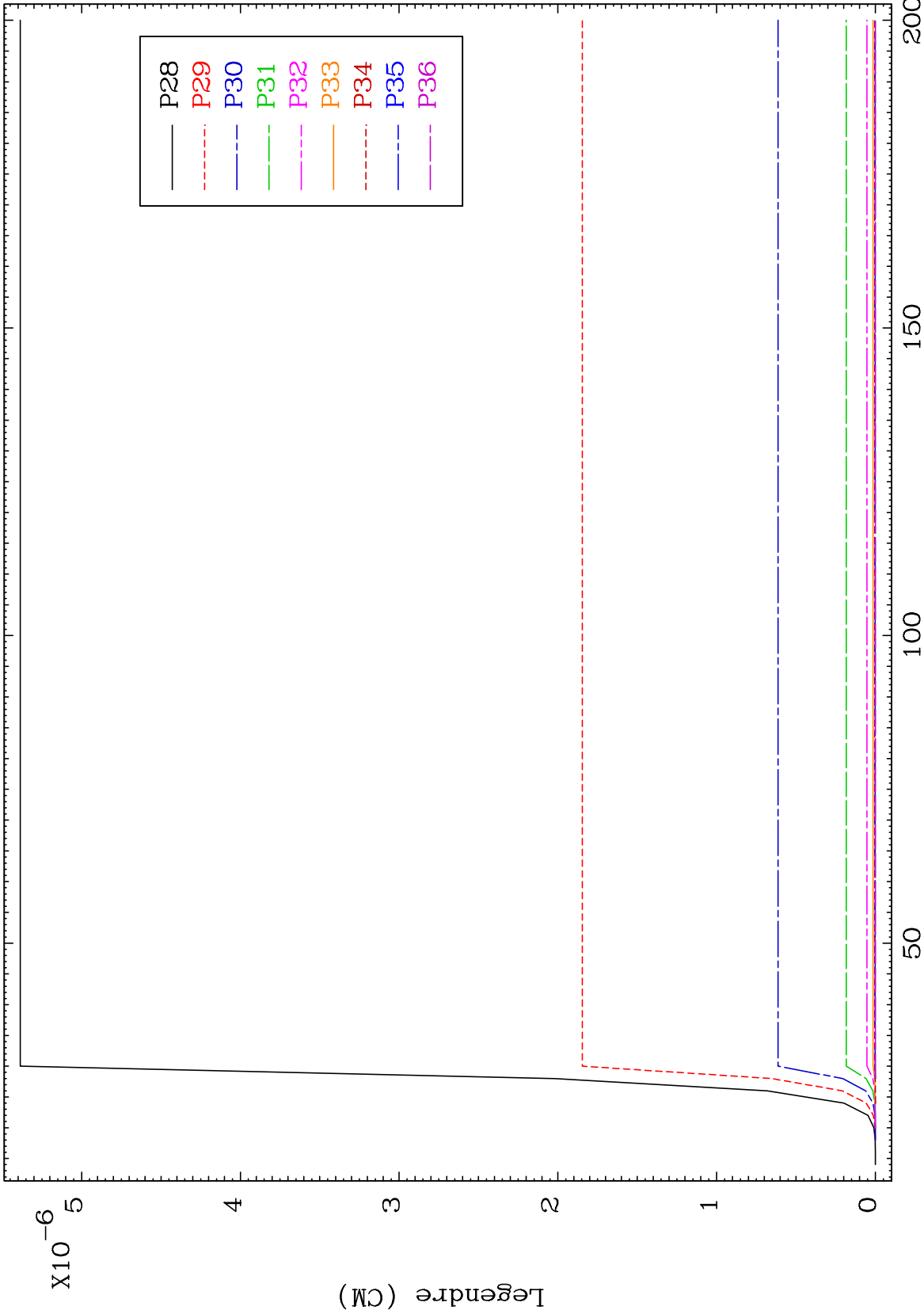
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 65 (n,n') Level
Legendre Coefficients

58-Ce-141



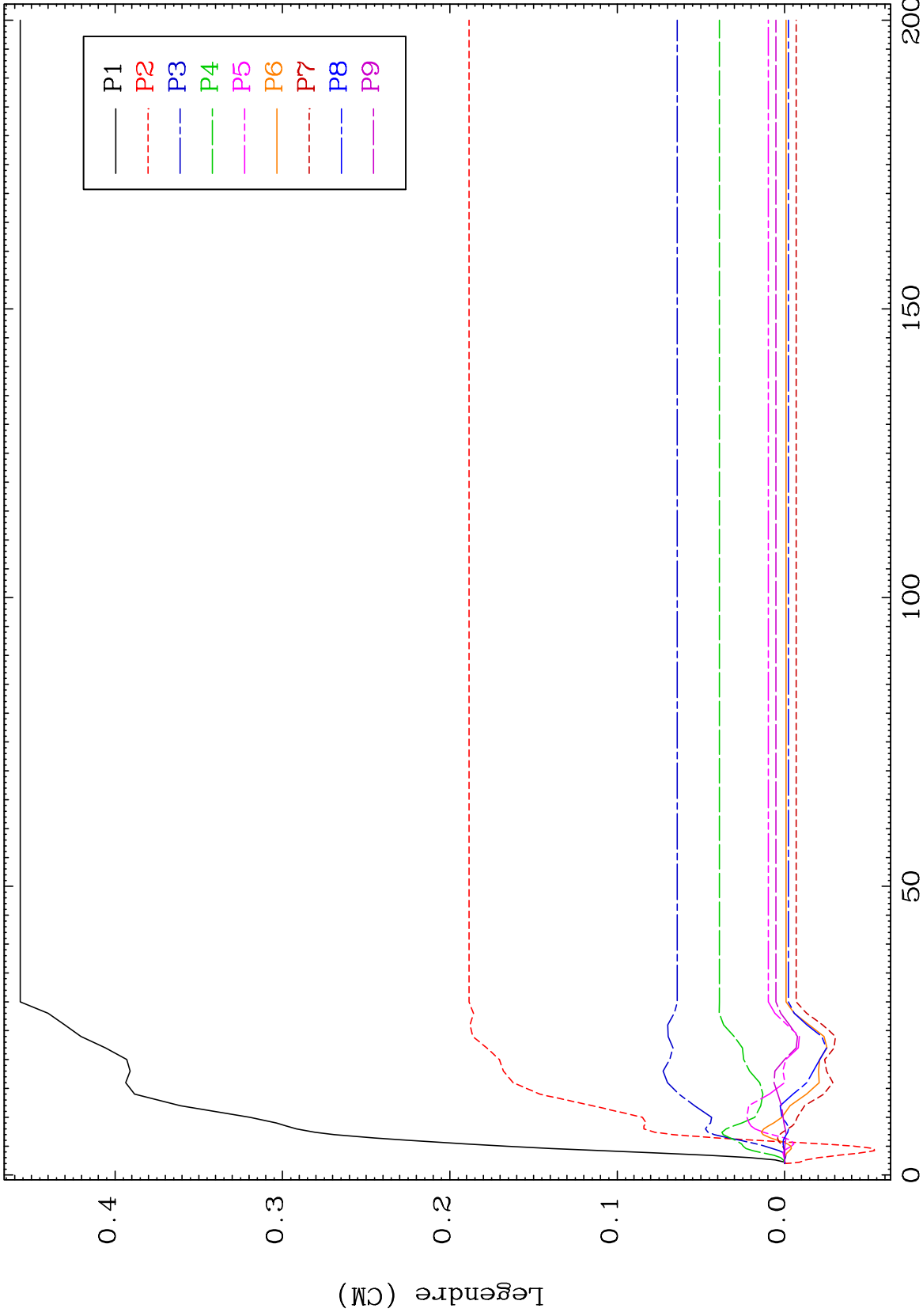
77

58-Ce-141

MAT 5840

MT= 66 (n,n') Level
Legendre Coefficients

58-Ce-141



78

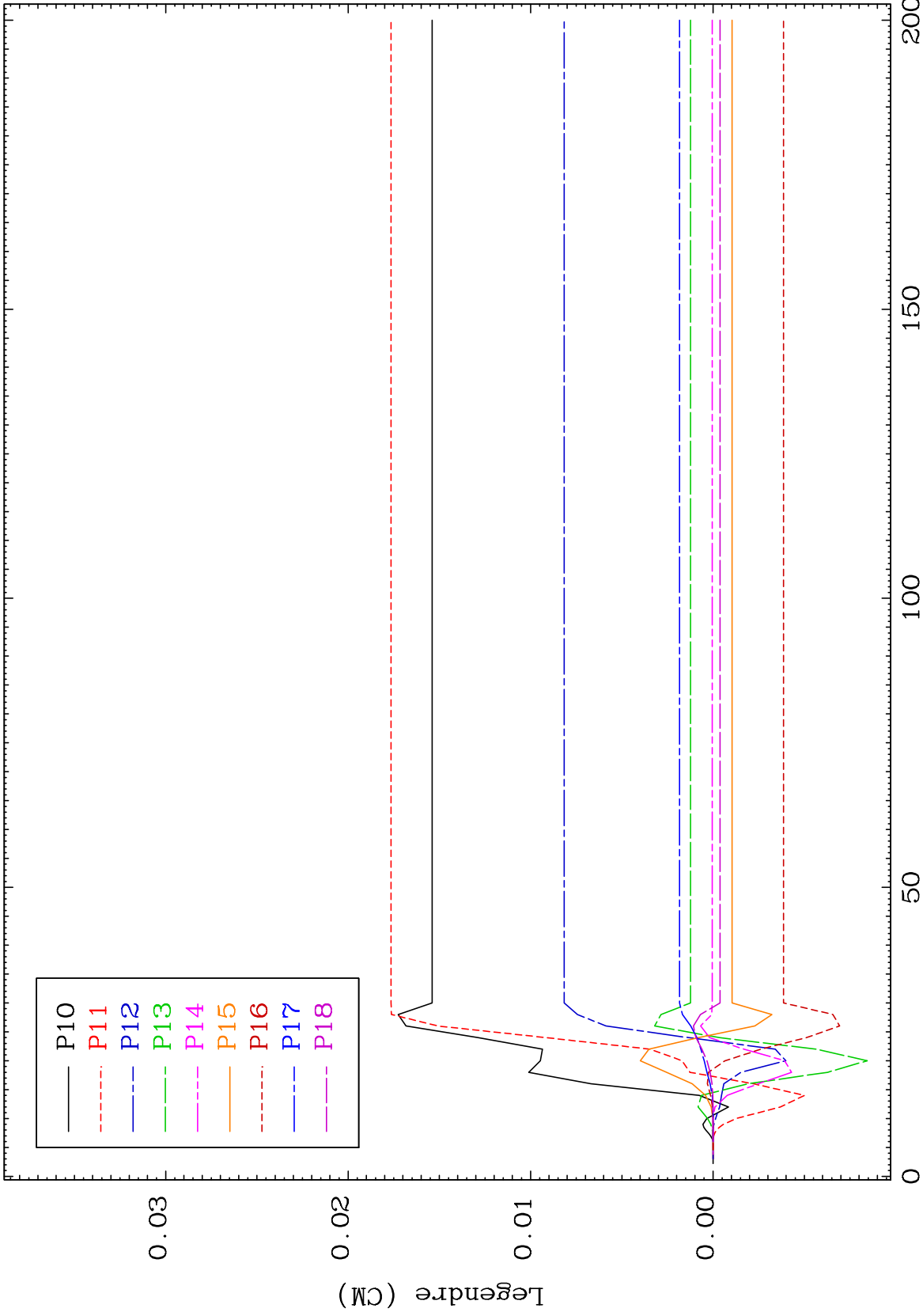
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 66 (n,n') Level
Legendre Coefficients

58-Ce-141



79

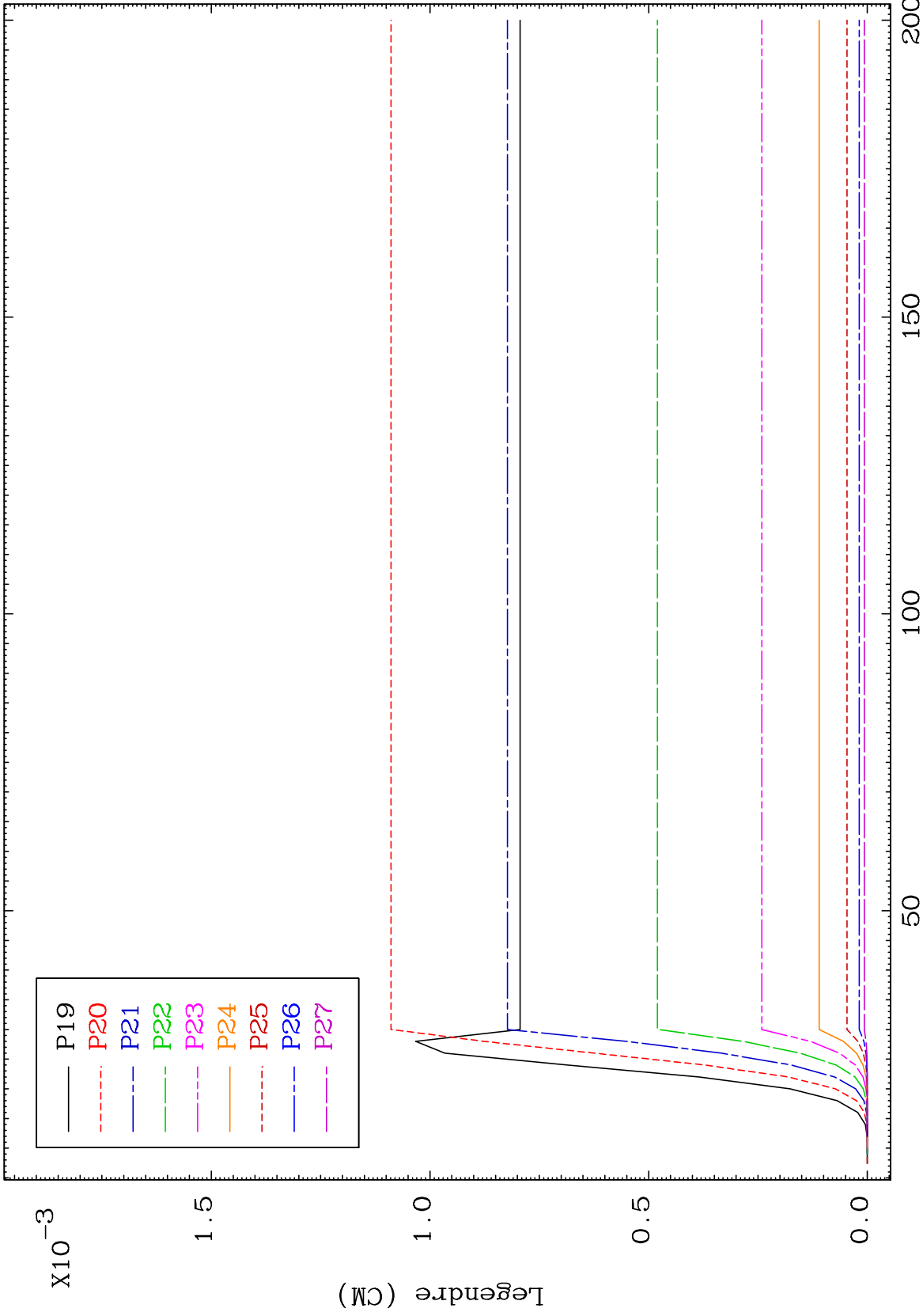
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 66 (n,n') Level
Legendre Coefficients

58-Ce-141



80

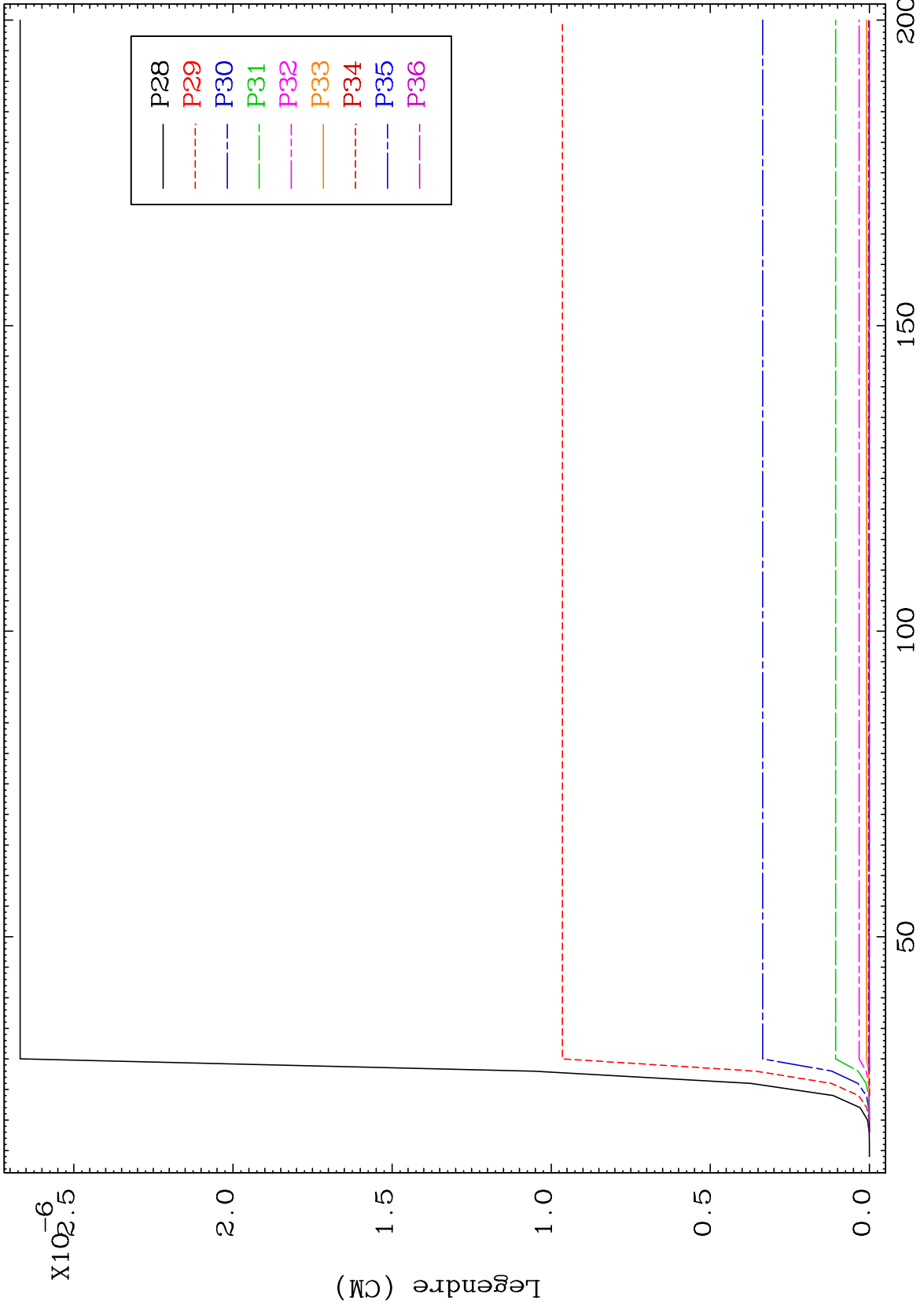
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 66 (n,n') Level
Legendre Coefficients

58-Ce-141



81

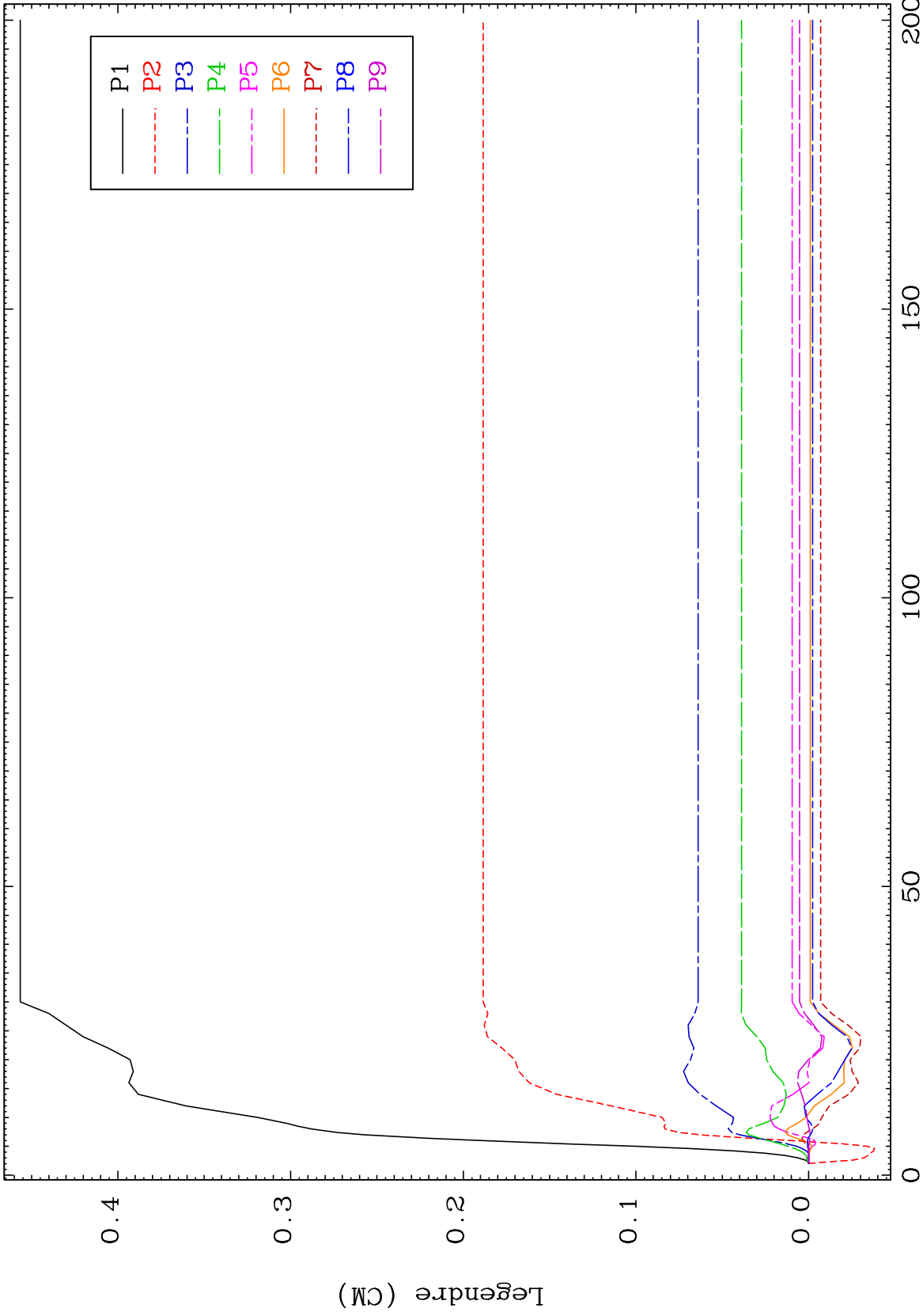
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 67 (n,n') Level
Legendre Coefficients

58-Ce-141



82

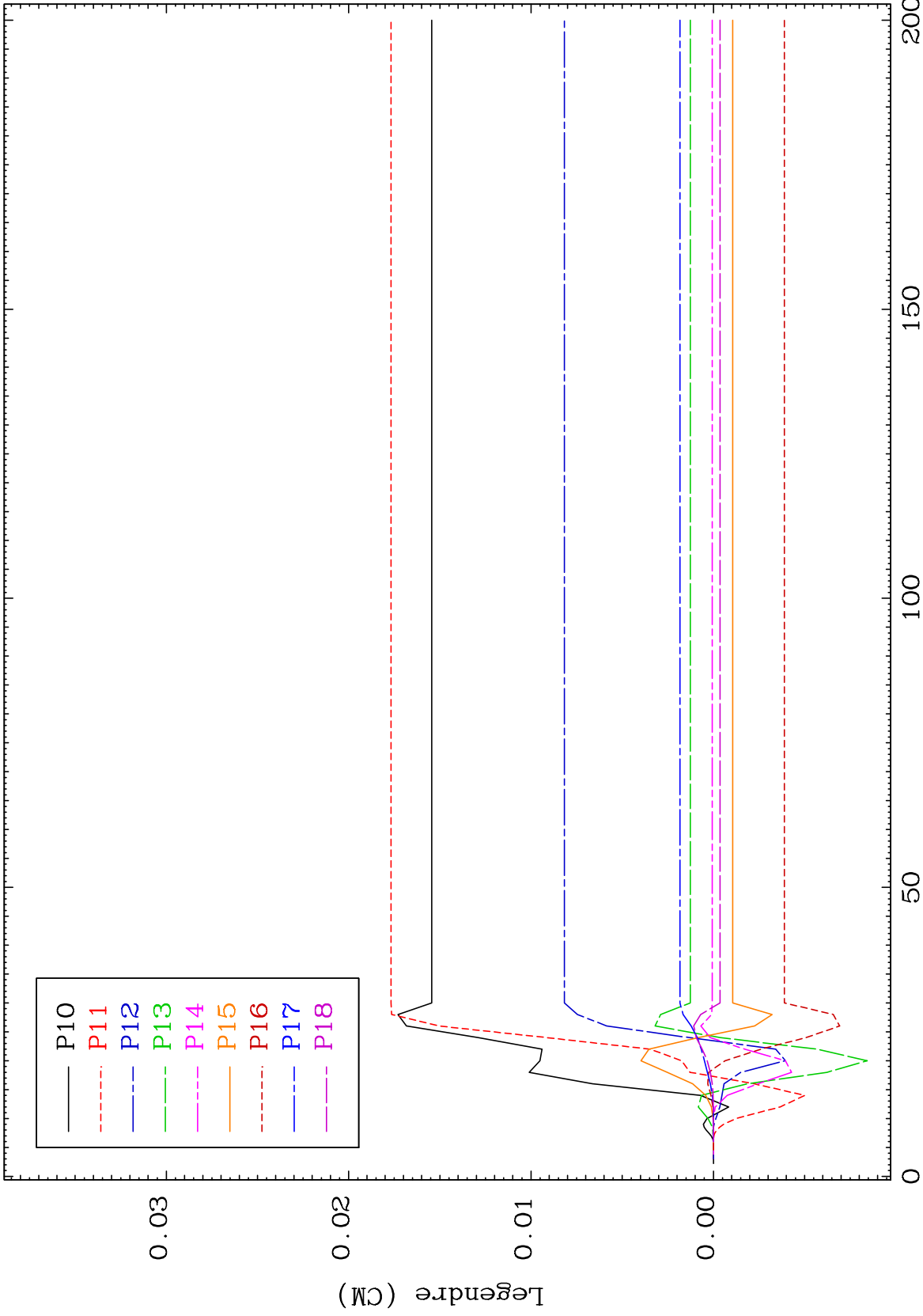
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 67 (n,n') Level
Legendre Coefficients

58-Ce-141



83

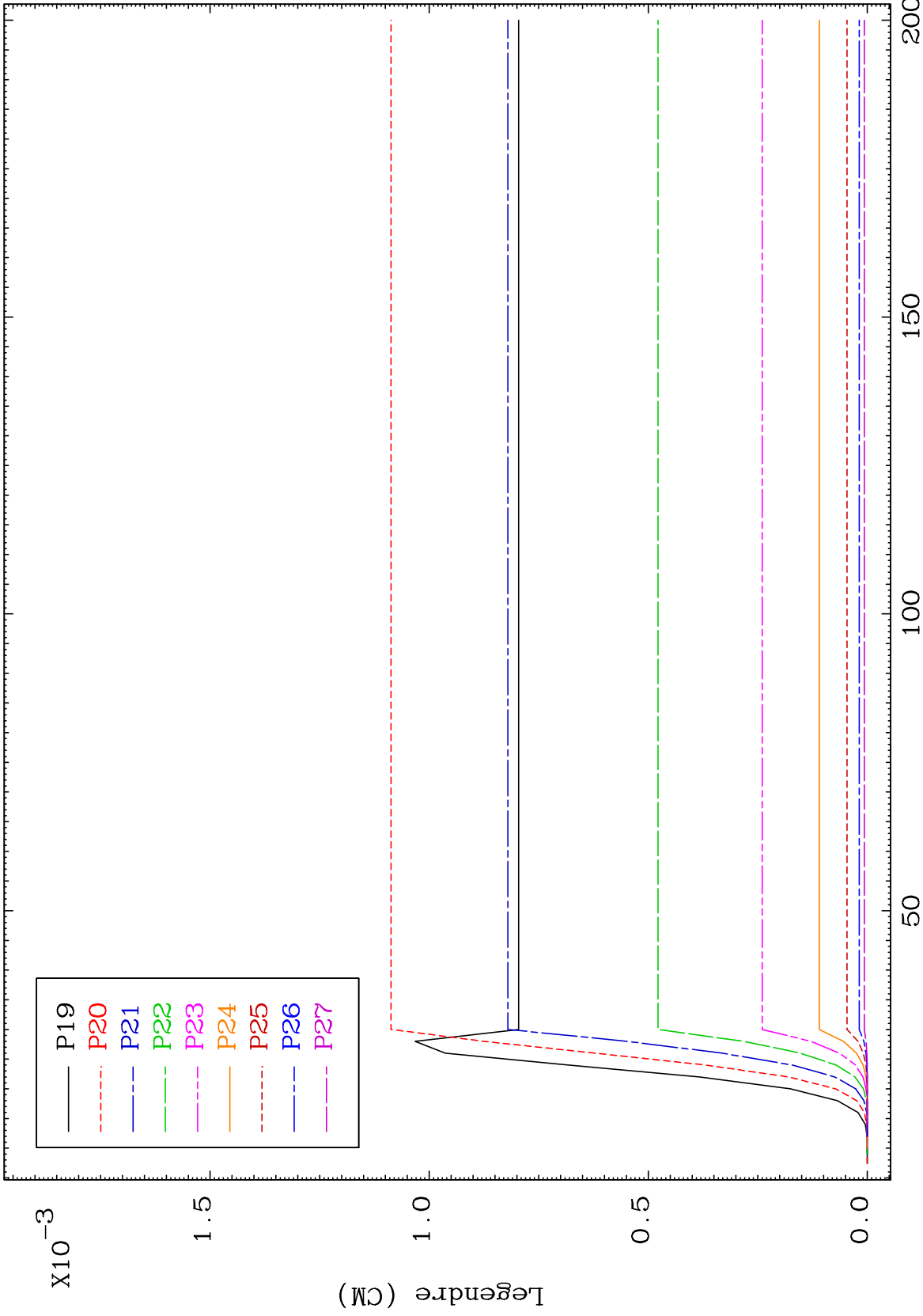
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 67 (n,n') Level
Legendre Coefficients

58-Ce-141



84

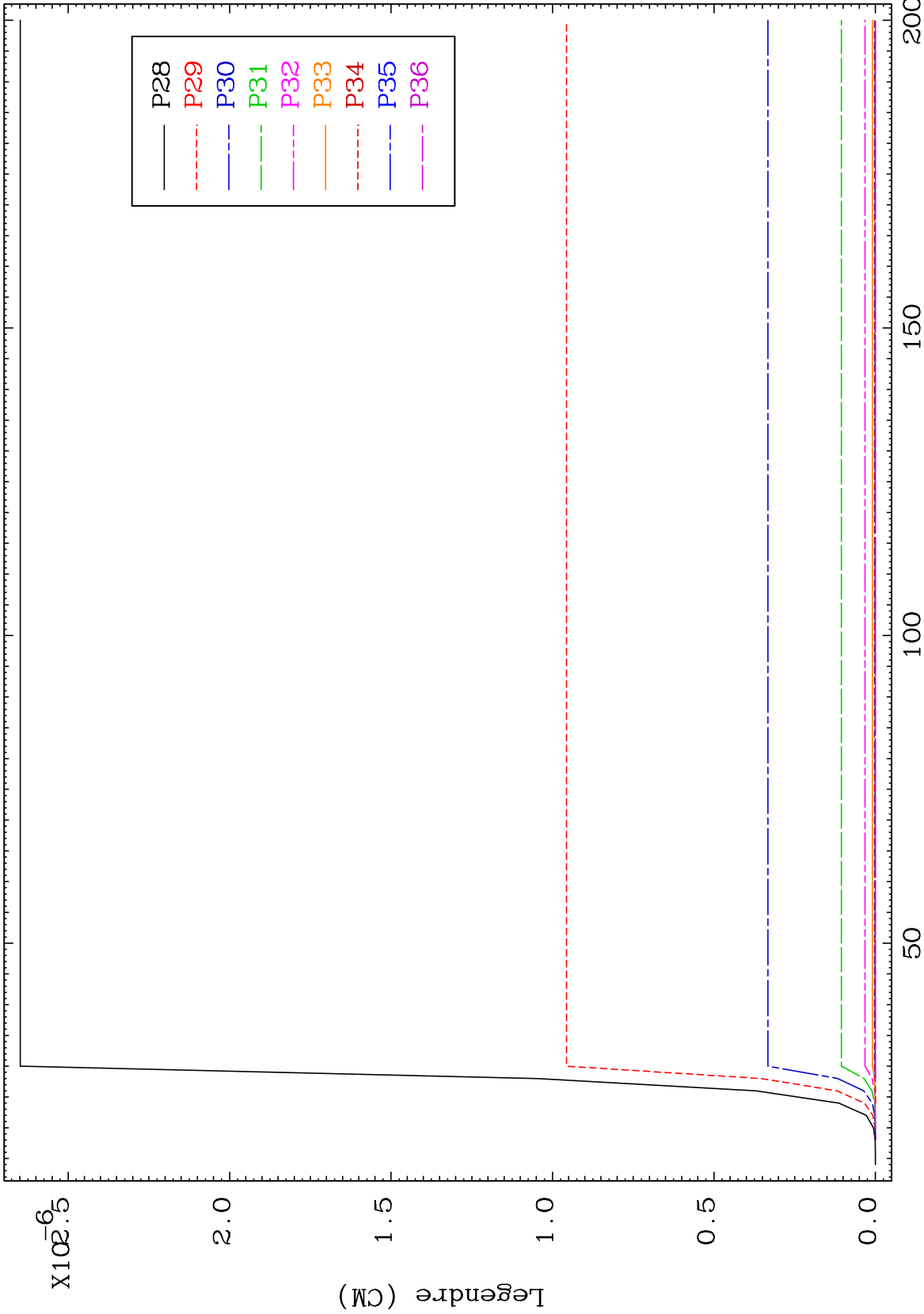
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 67 (n,n') Level
Legendre Coefficients

58-Ce-141



85

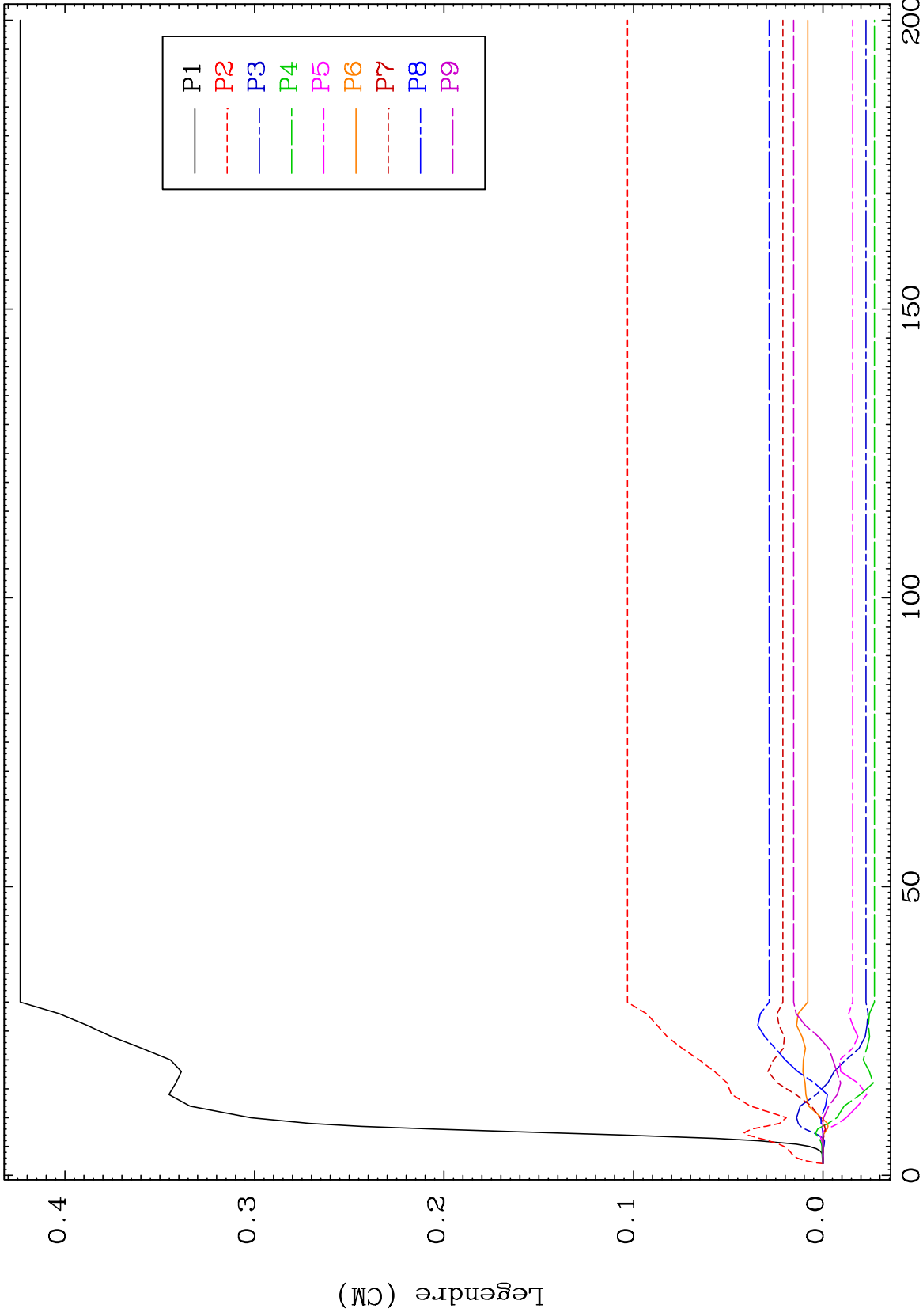
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 68 (n,n') Level
Legendre Coefficients

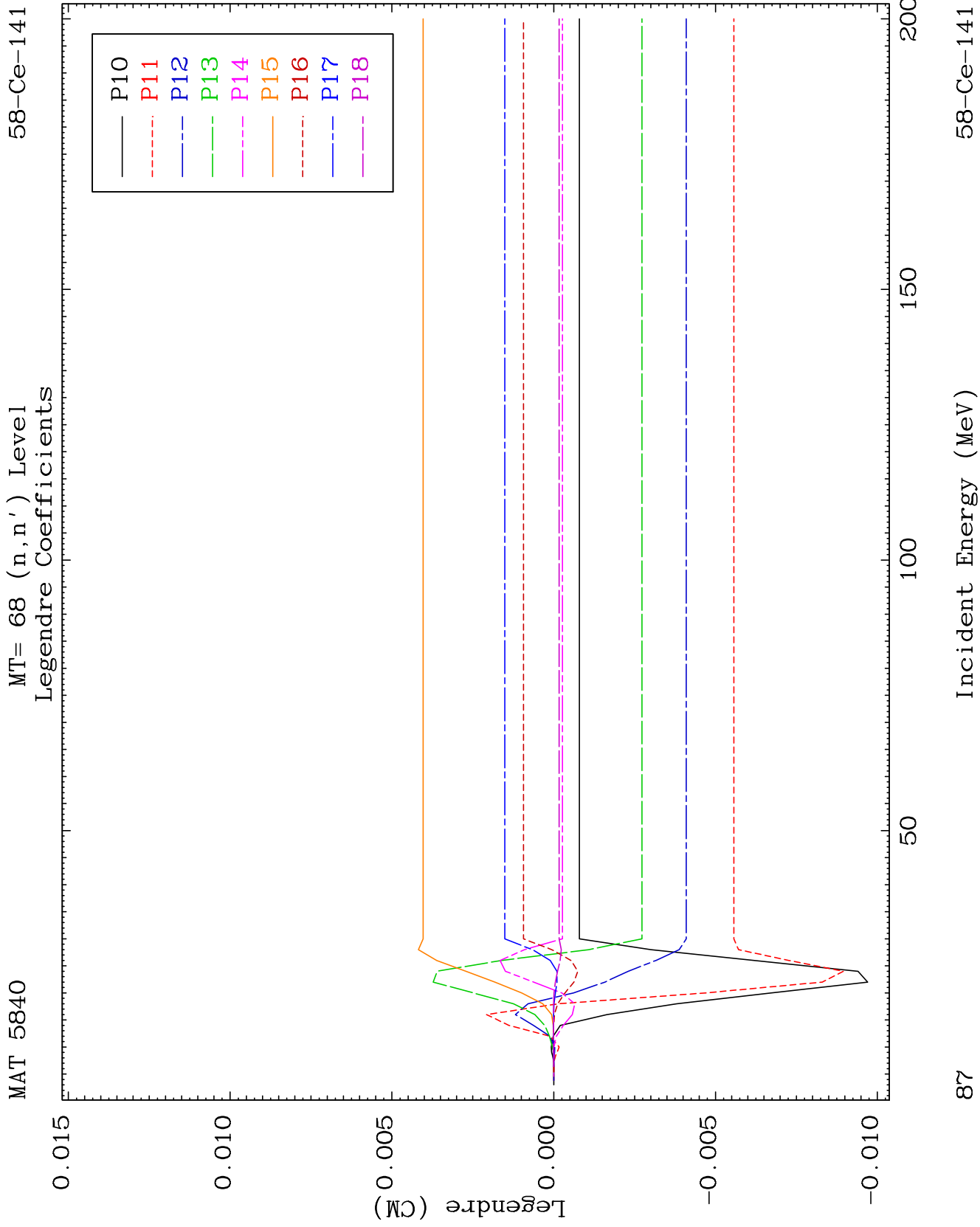
58-Ce-141



86

Incident Energy (MeV)

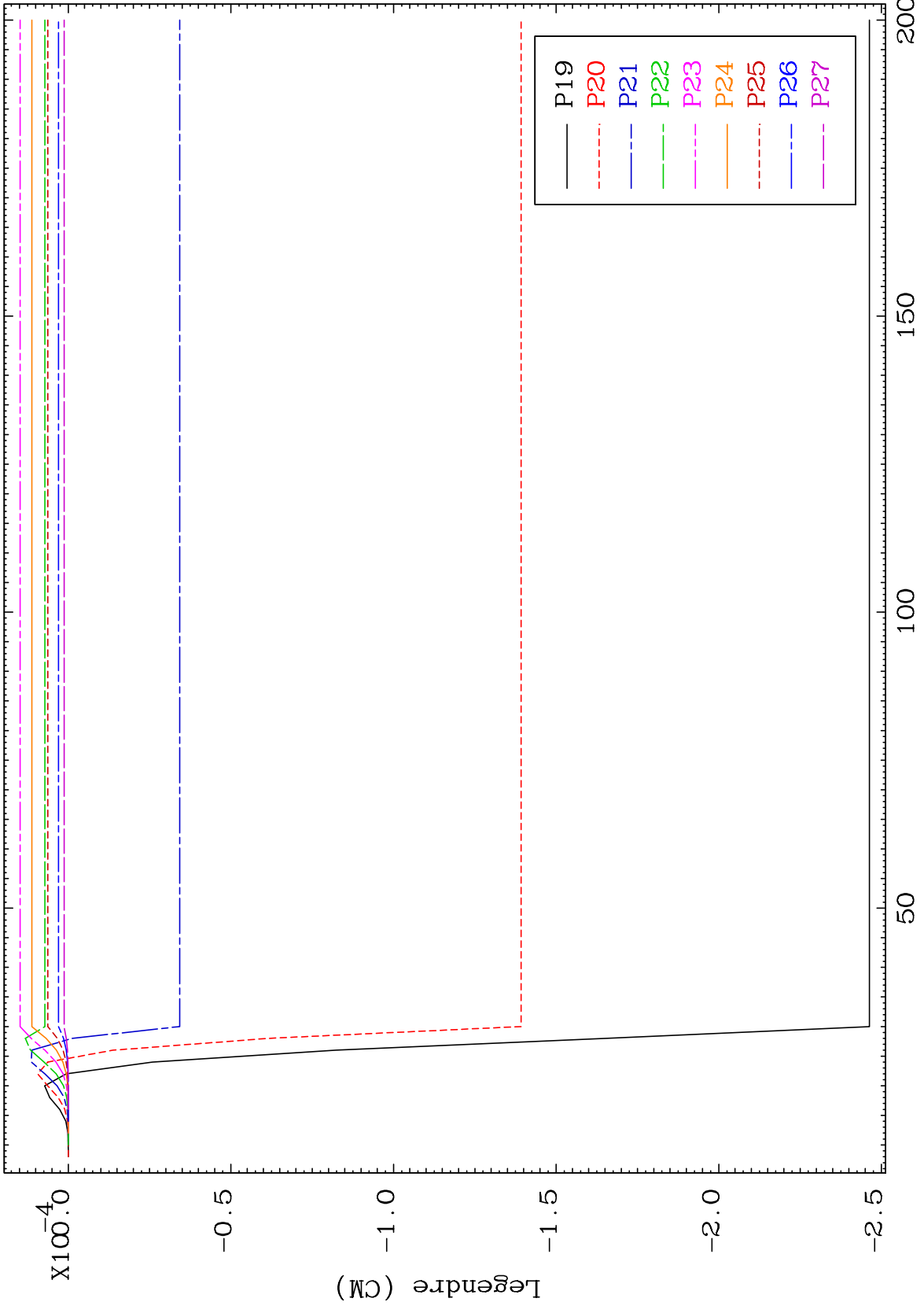
58-Ce-141



MAT 5840

MT= 68 (n,n') Level
Legendre Coefficients

58-Ce-141



58-Ce-141

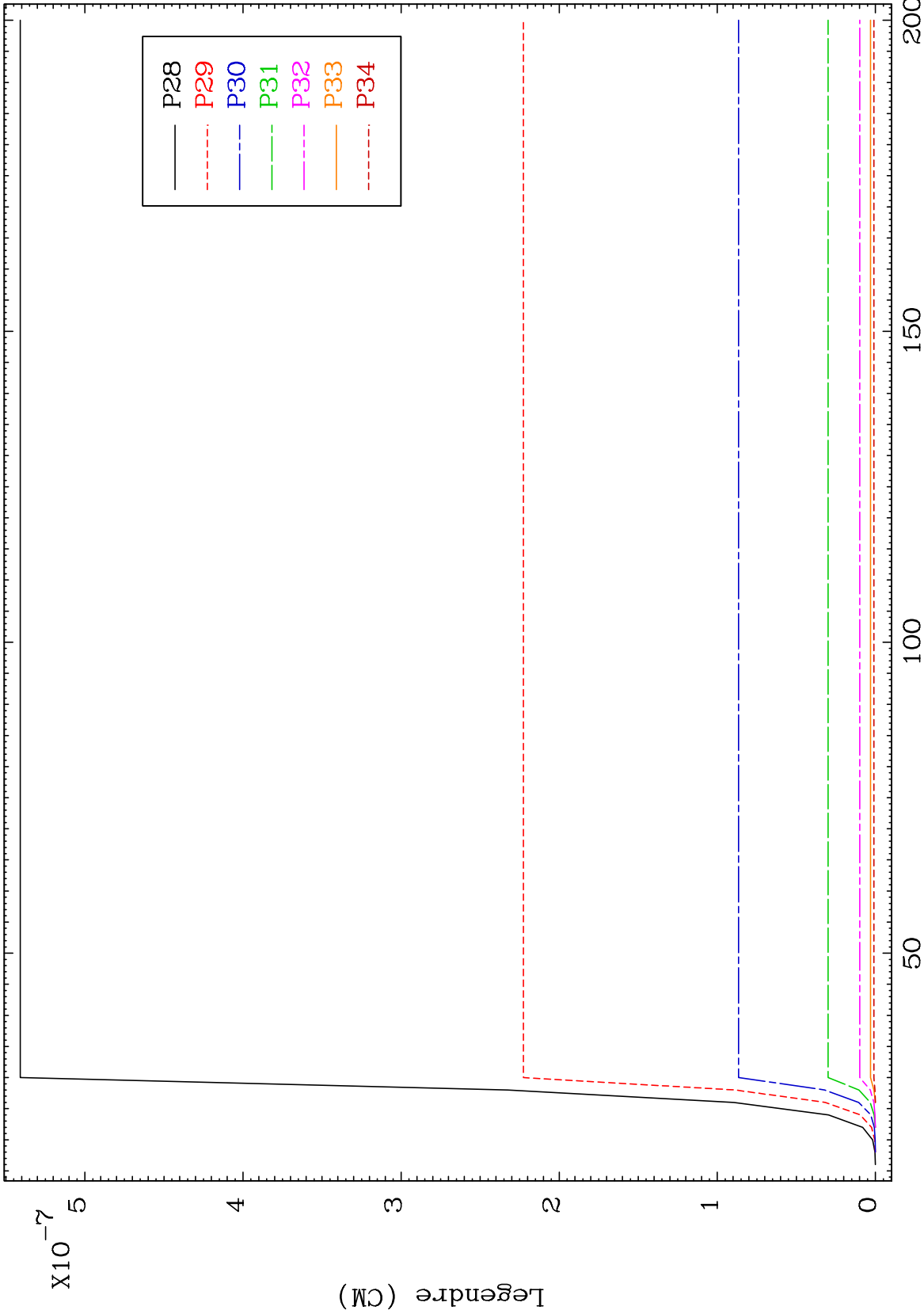
Incident Energy (MeV)

88

MAT 5840

MT= 68 (n,n') Level
Legendre Coefficients

58-Ce-141



89

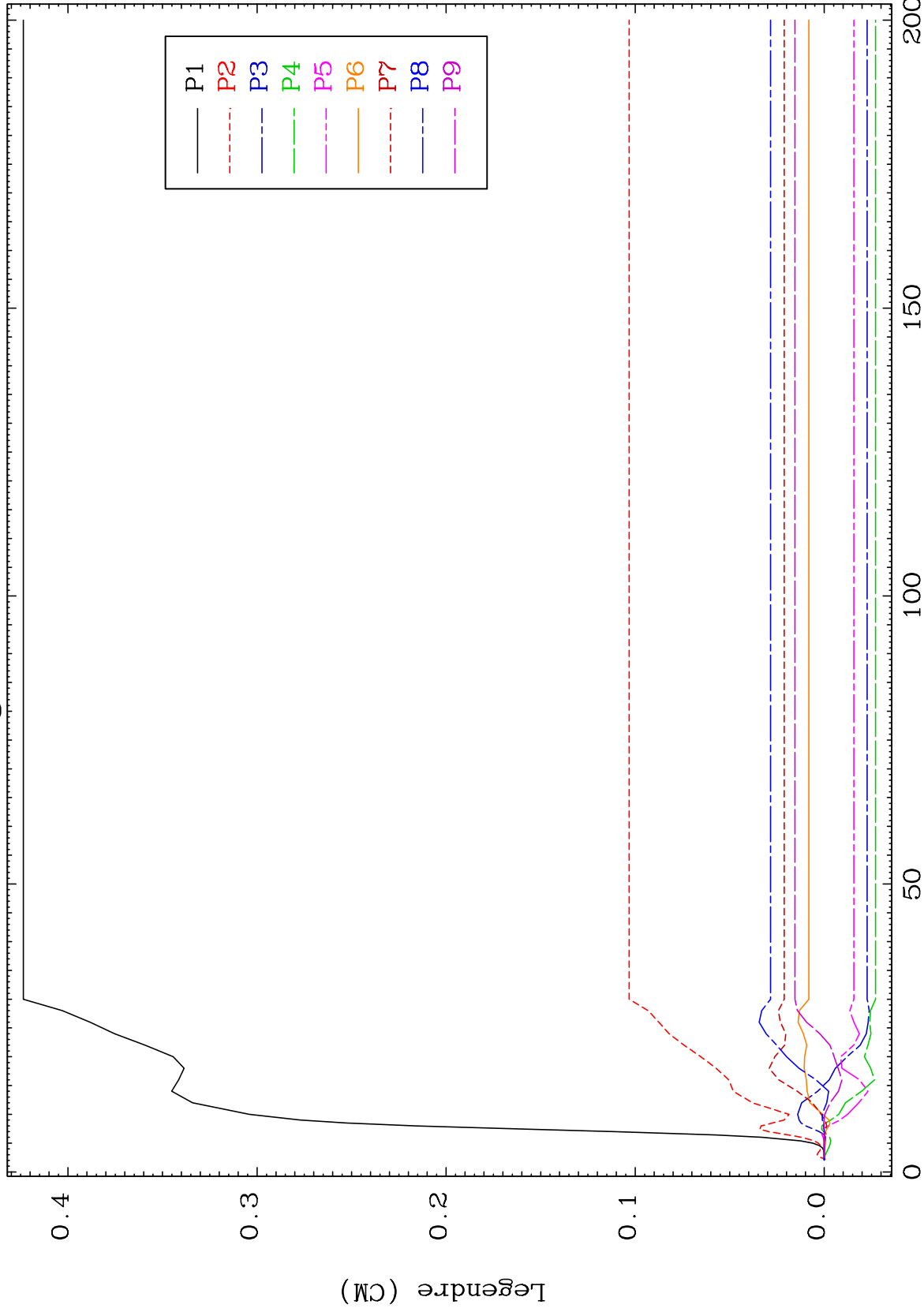
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 69 (n,n') Level
Legendre Coefficients

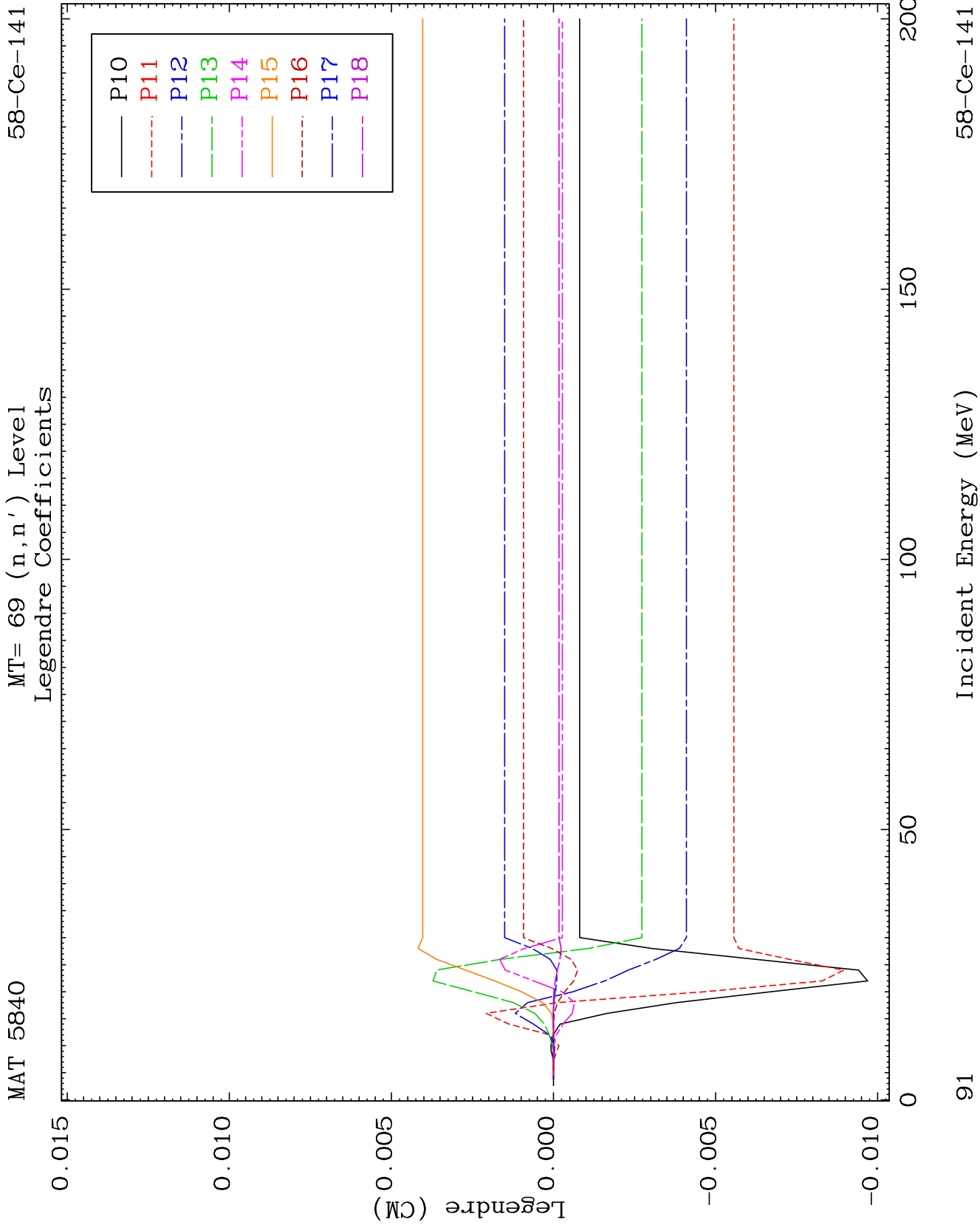
58-Ce-141



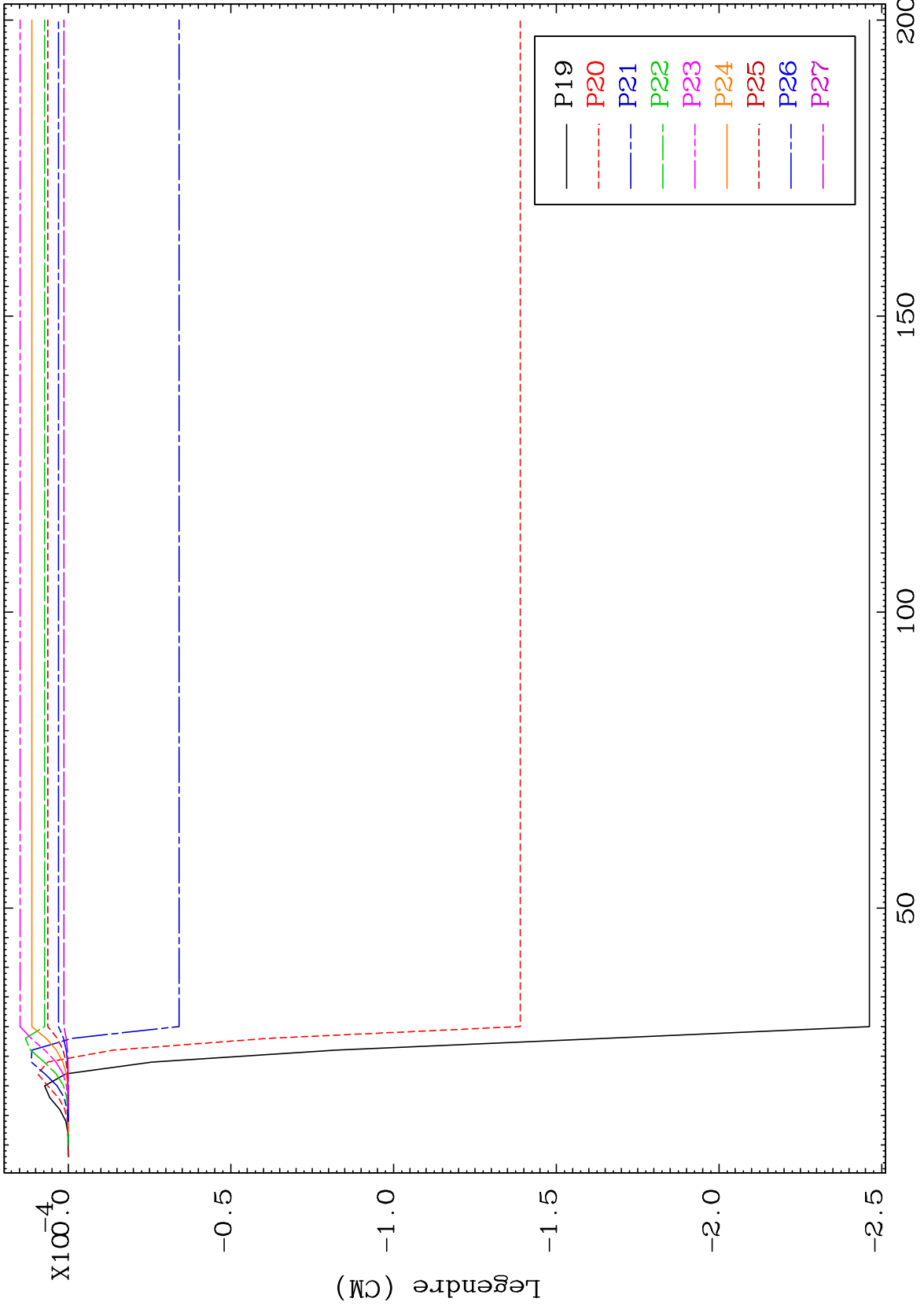
58-Ce-141

Incident Energy (MeV)

90



MAT 5840 MT= 69 (n,n') Level Legendre Coefficients 58-Ce-141

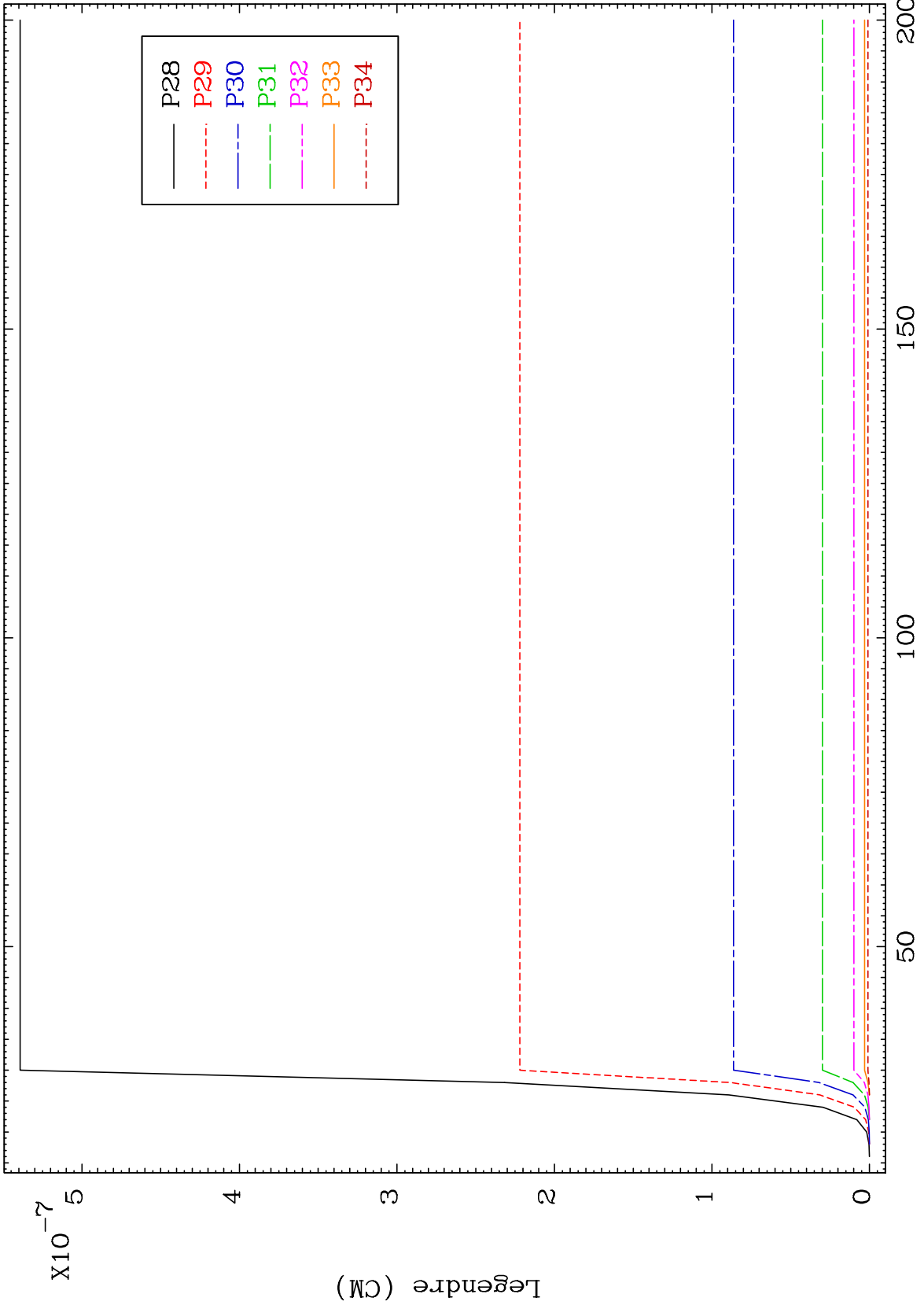


92 58-Ce-141

MAT 5840

MT= 69 (n,n') Level
Legendre Coefficients

58-Ce-141



93

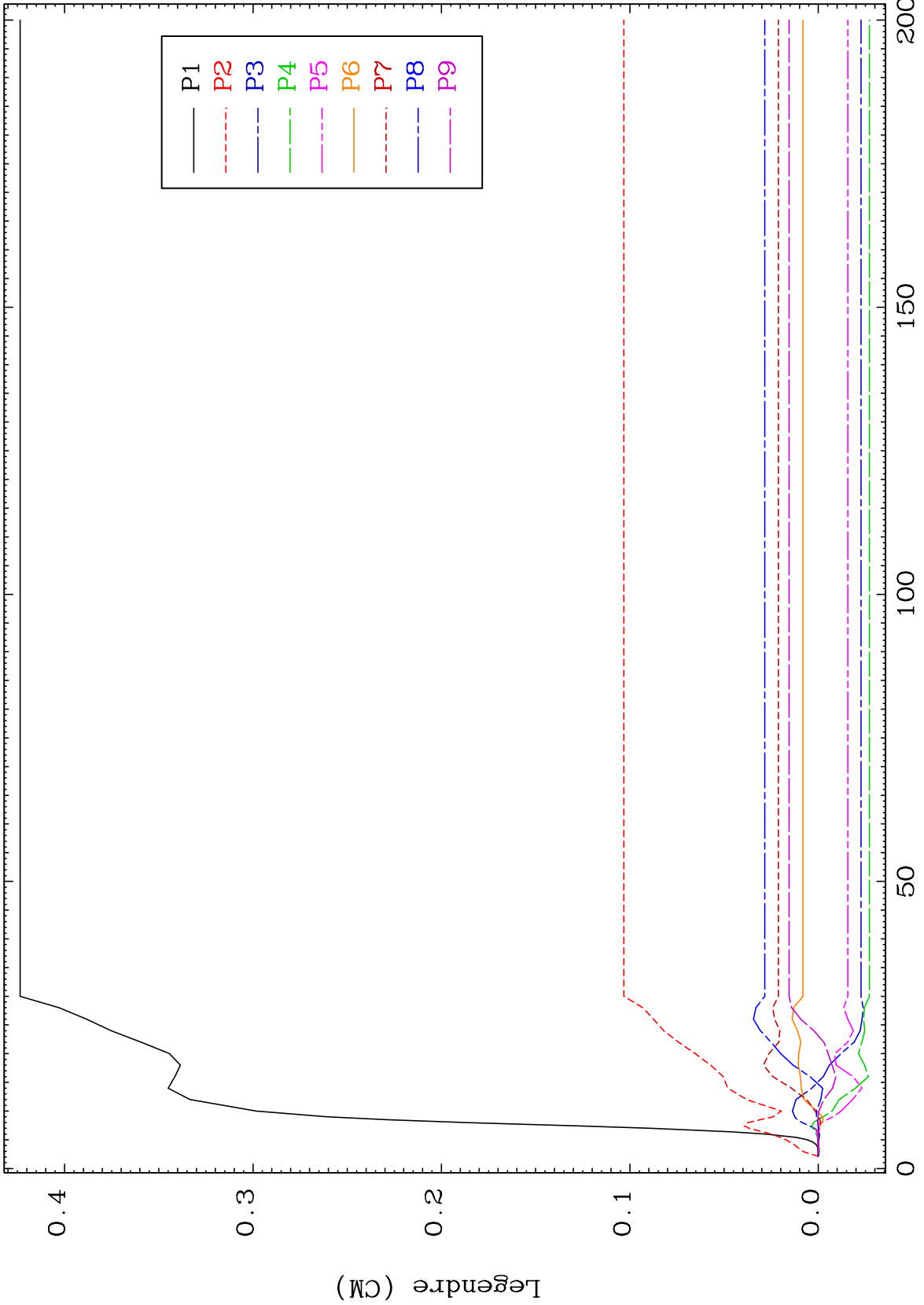
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 70 (n,n') Level
Legendre Coefficients

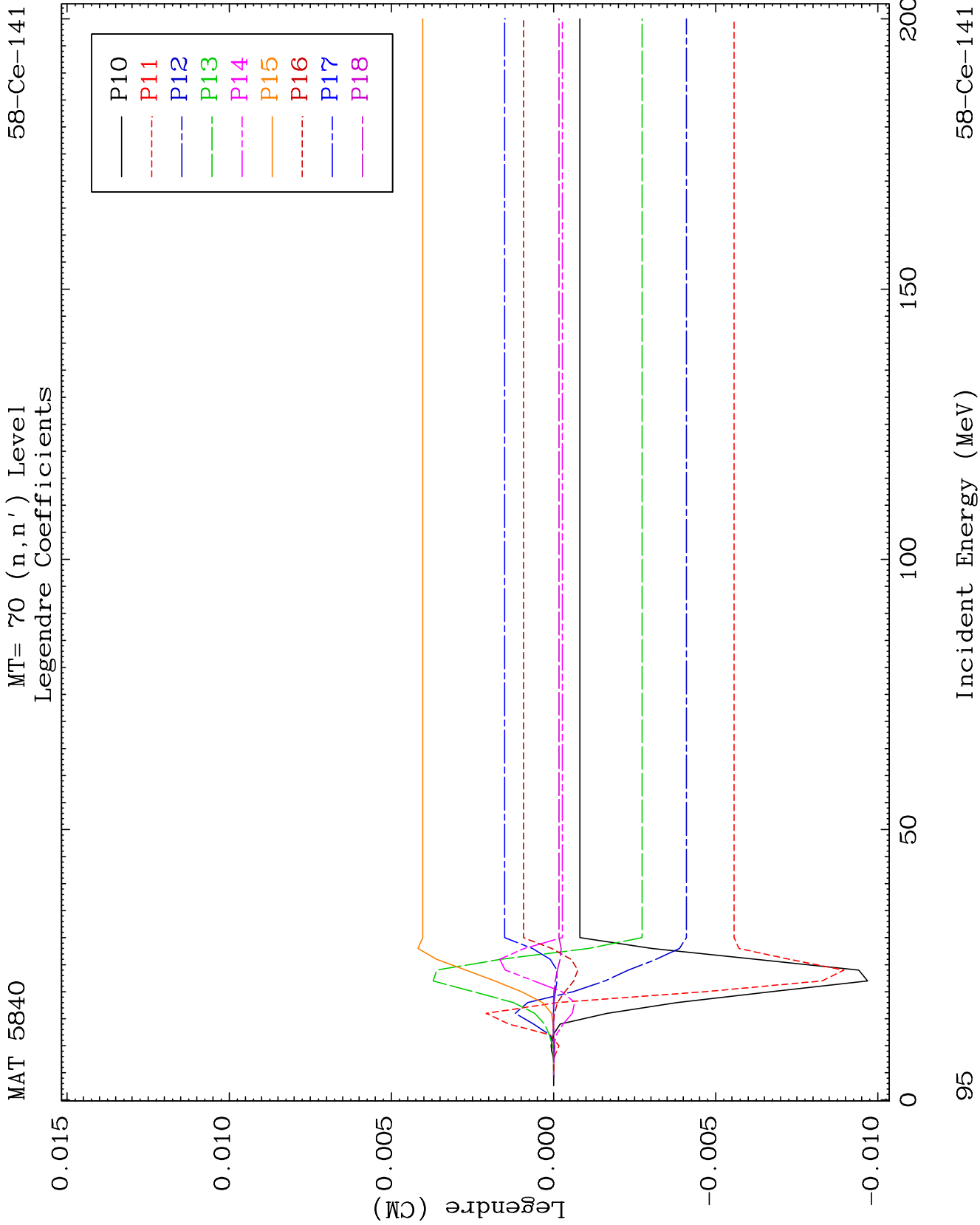
58-Ce-141



94

Incident Energy (MeV)

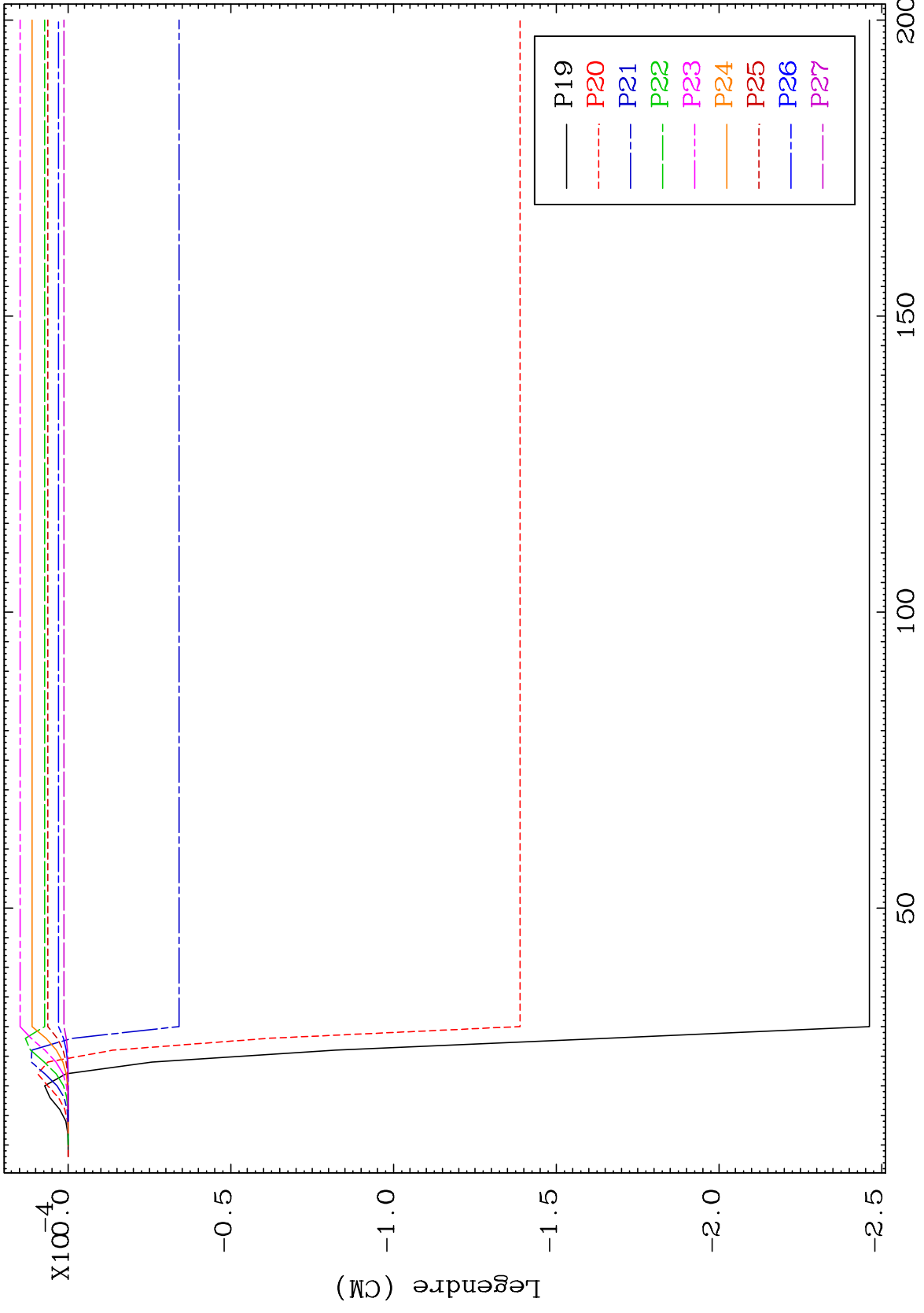
58-Ce-141



MAT 5840

MT= 70 (n,n') Level
Legendre Coefficients

58-Ce-141



58-Ce-141

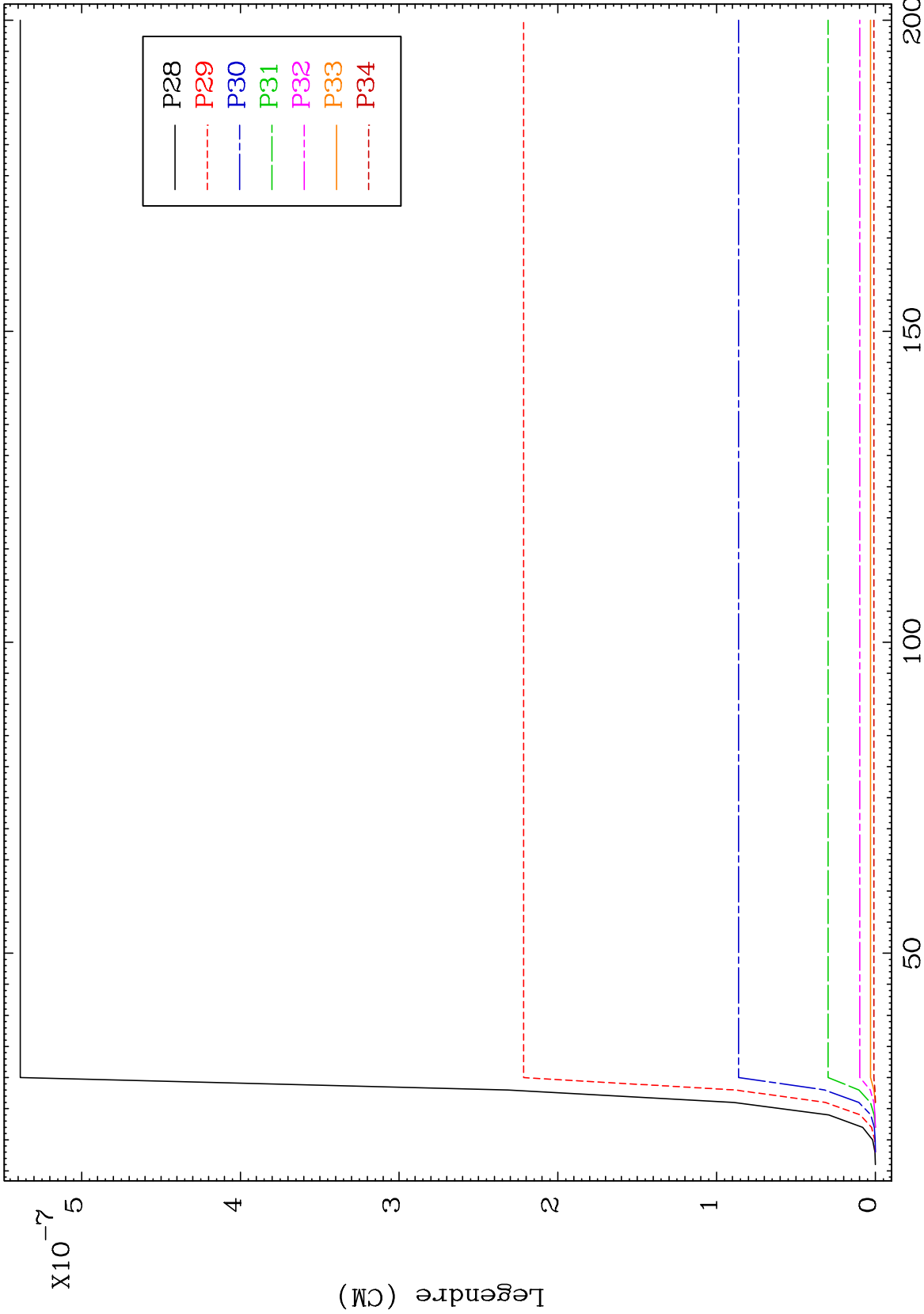
Incident Energy (MeV)

96

MAT 5840

MT= 70 (n,n') Level
Legendre Coefficients

58-Ce-141



97

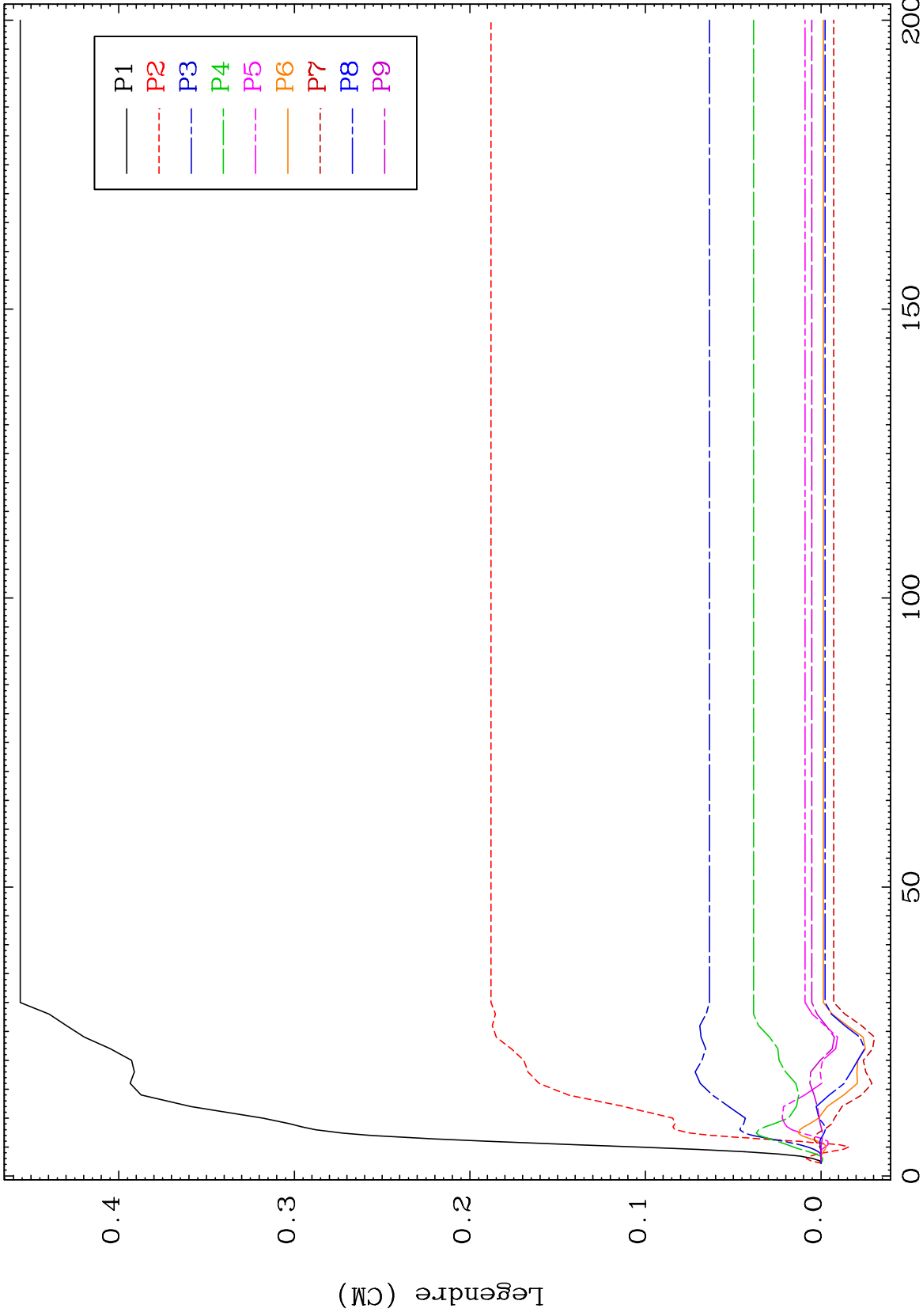
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 71 (n,n') Level
Legendre Coefficients

58-Ce-141



98

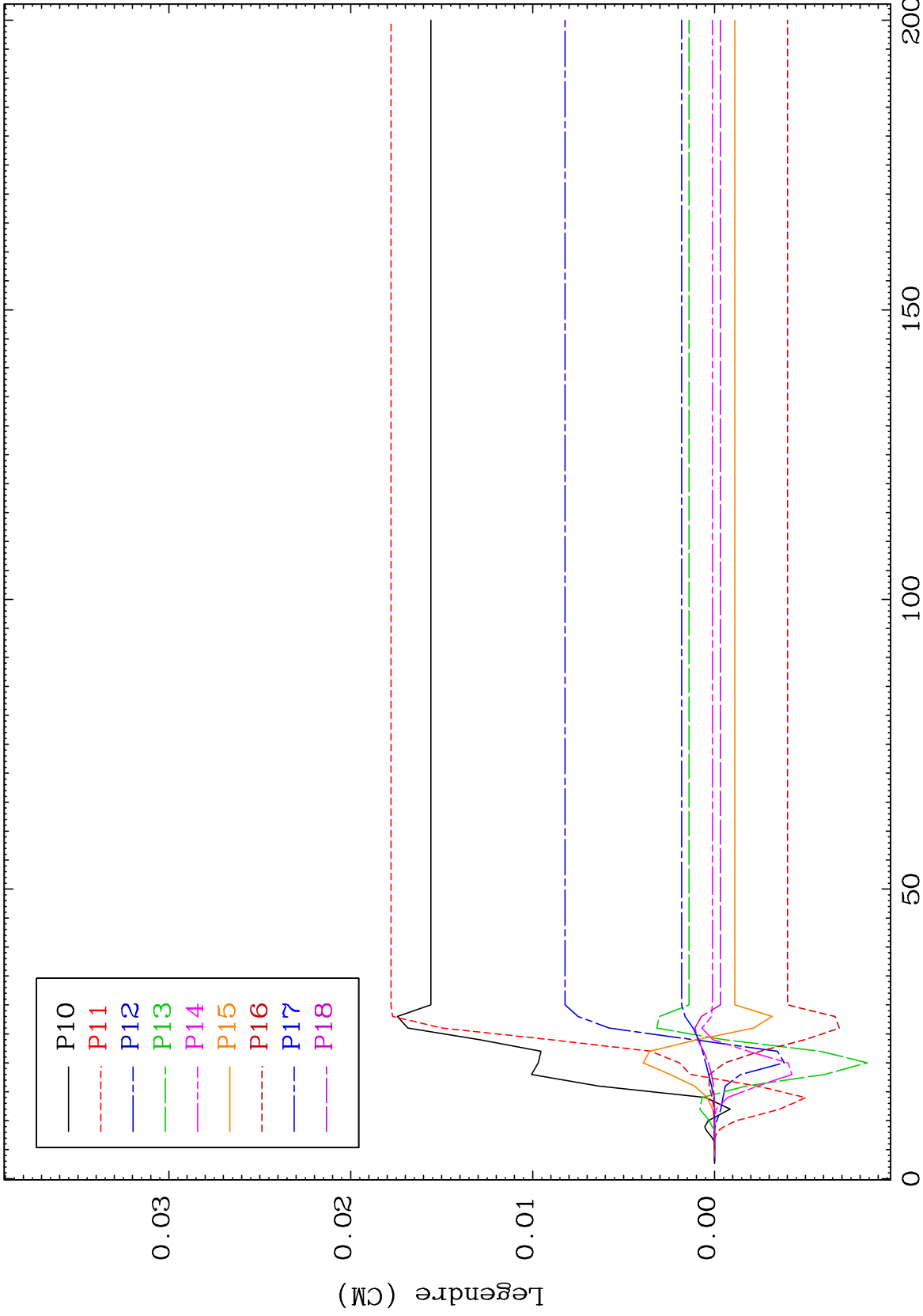
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 71 (n,n') Level
Legendre Coefficients

58-Ce-141



99

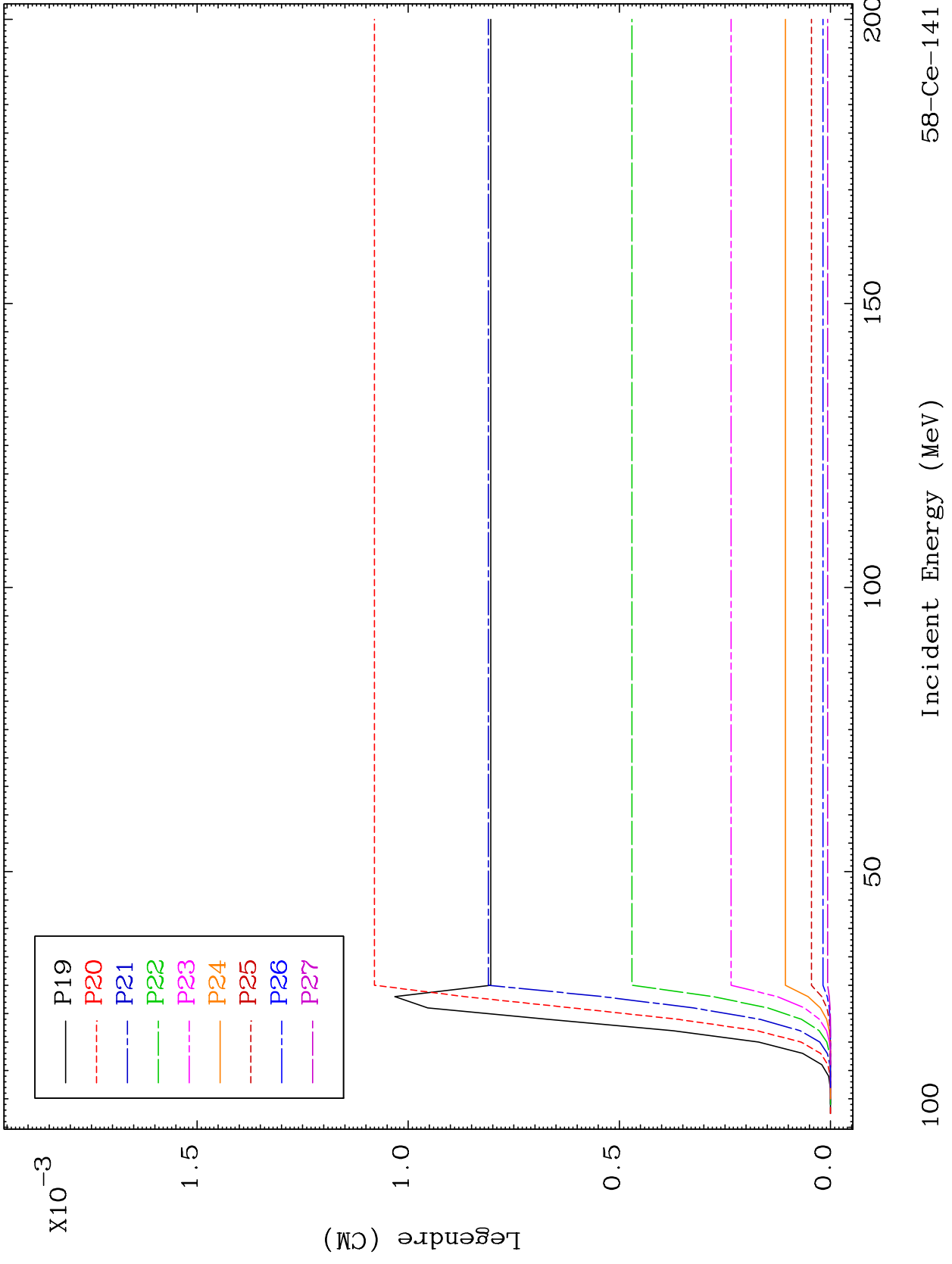
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 71 (n,n') Level
Legendre Coefficients

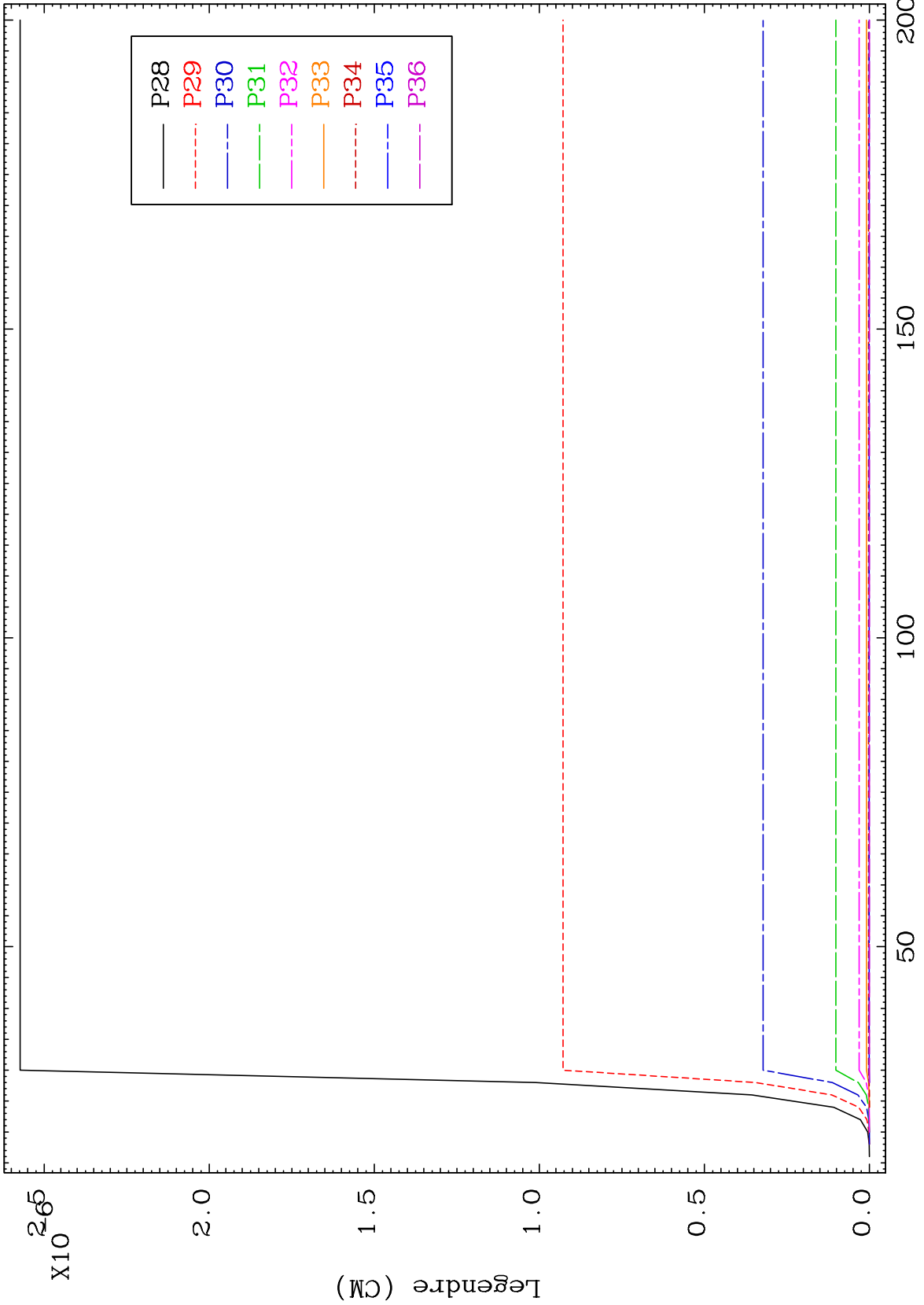
58-Ce-141



MAT 5840

MT= 71 (n,n') Level
Legendre Coefficients

58-Ce-141



101

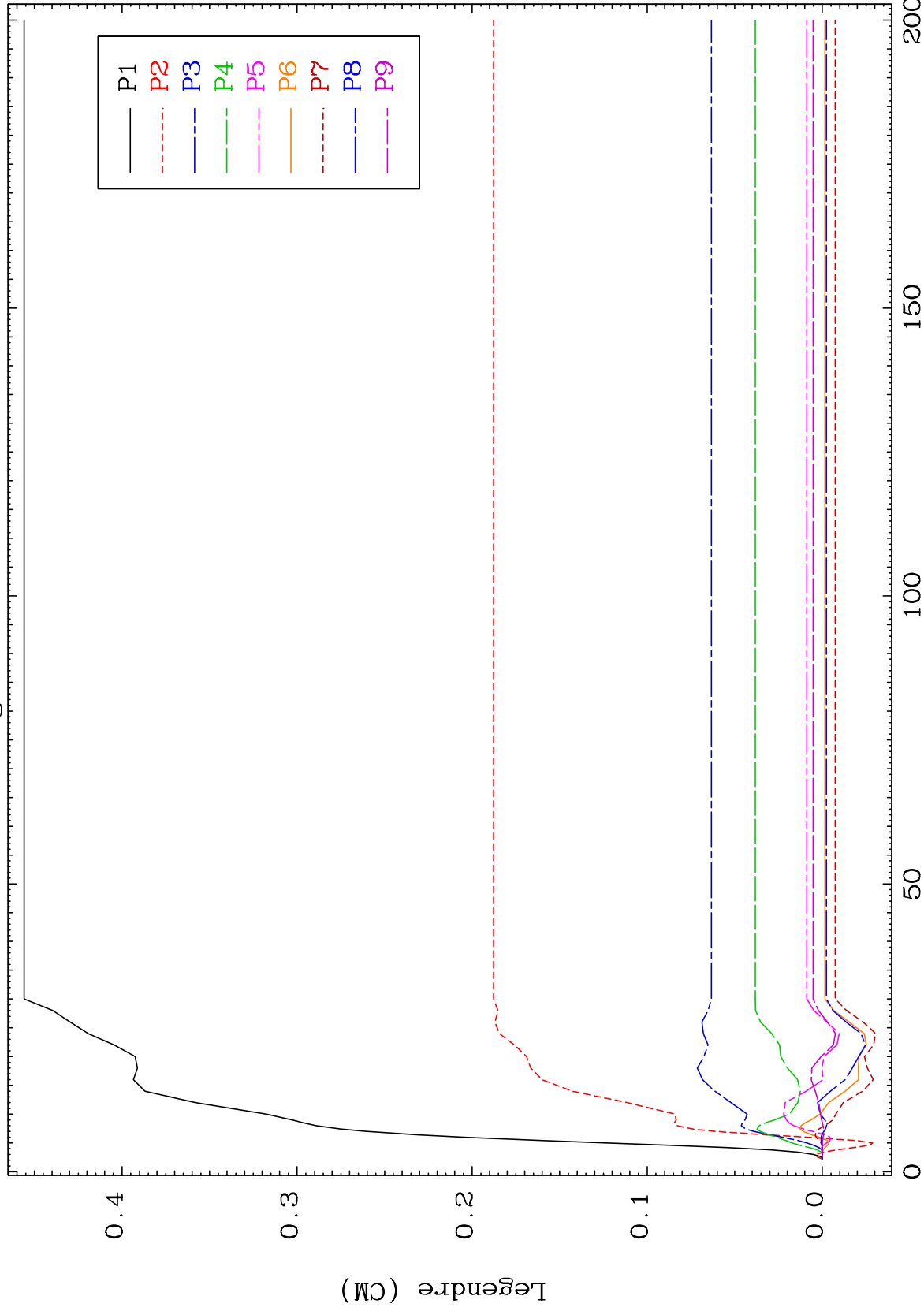
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 72 (n,n') Level
Legendre Coefficients

58-Ce-141



58-Ce-141

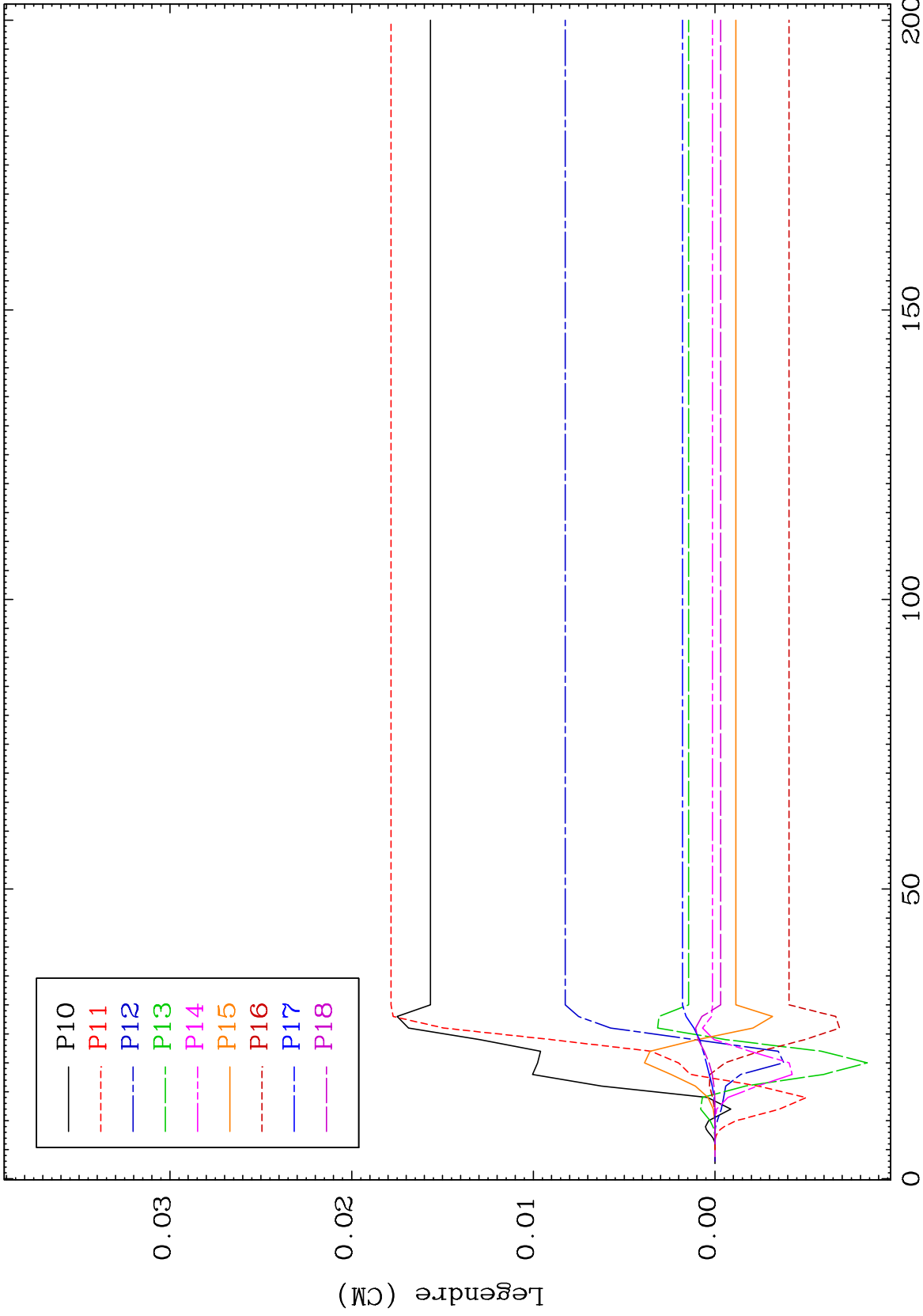
Incident Energy (MeV)

102

MAT 5840

MT= 72 (n,n') Level
Legendre Coefficients

58-Ce-141



103

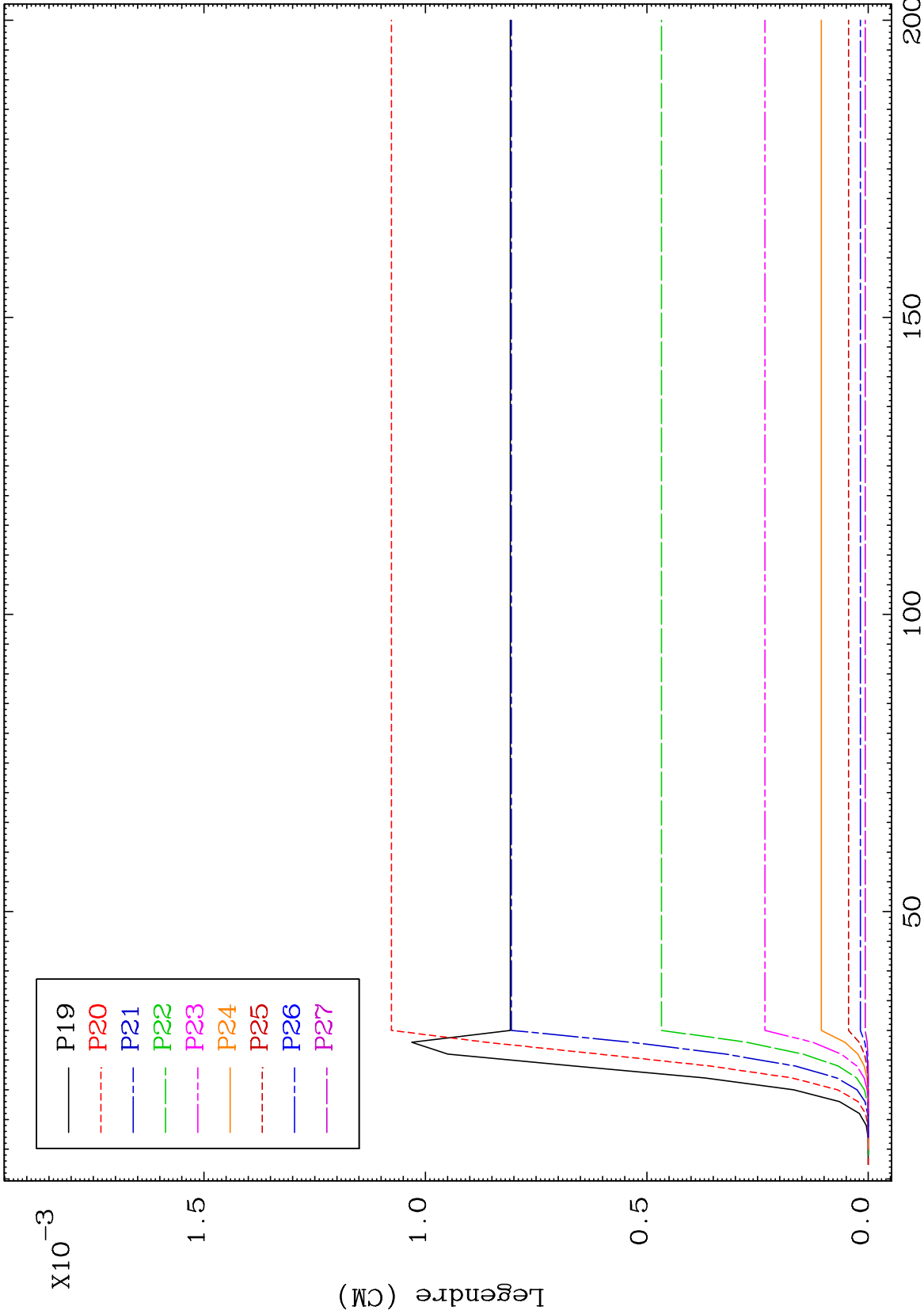
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 72 (n,n') Level
Legendre Coefficients

58-Ce-141



104

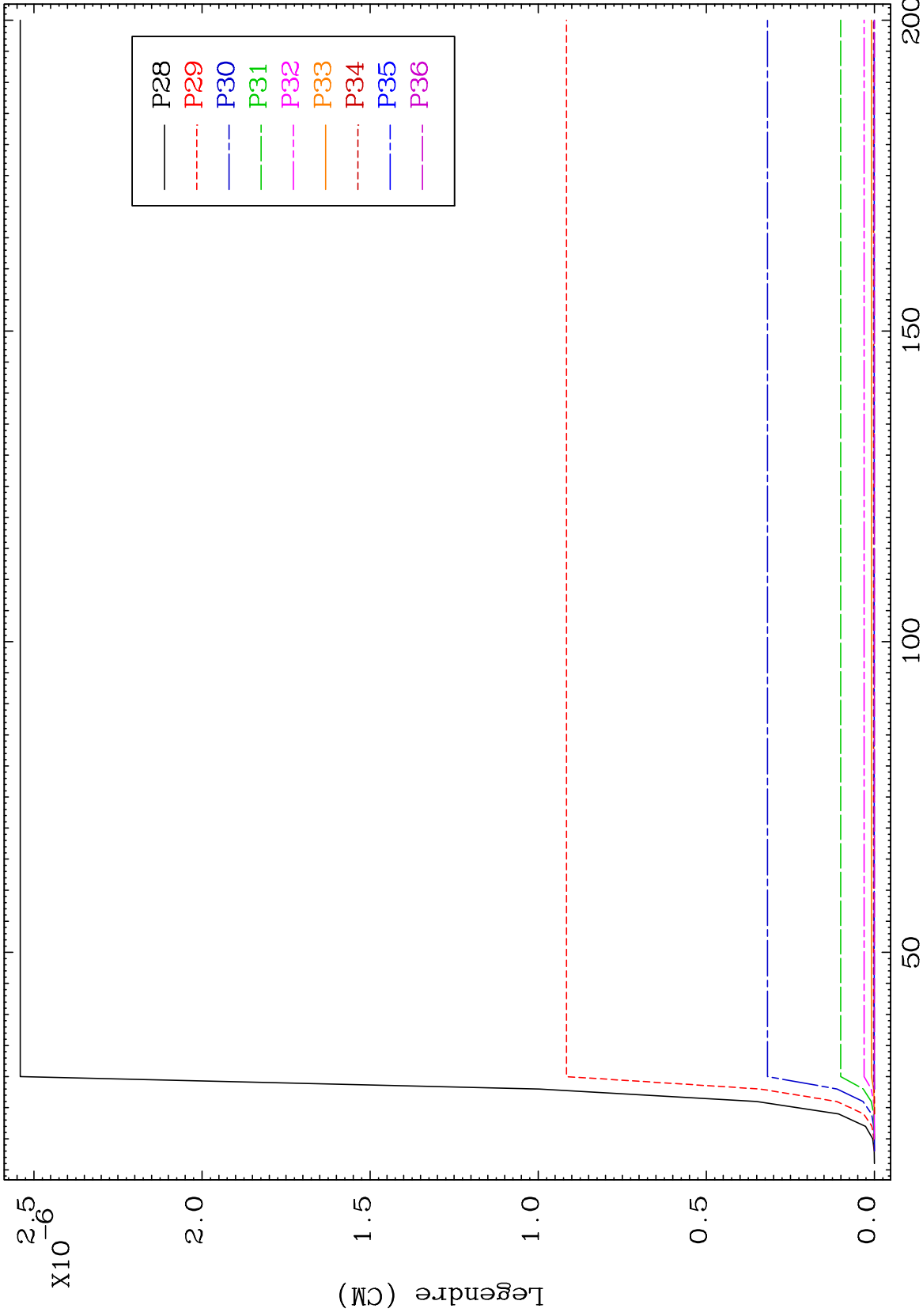
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 72 (n,n') Level
Legendre Coefficients

58-Ce-141



105

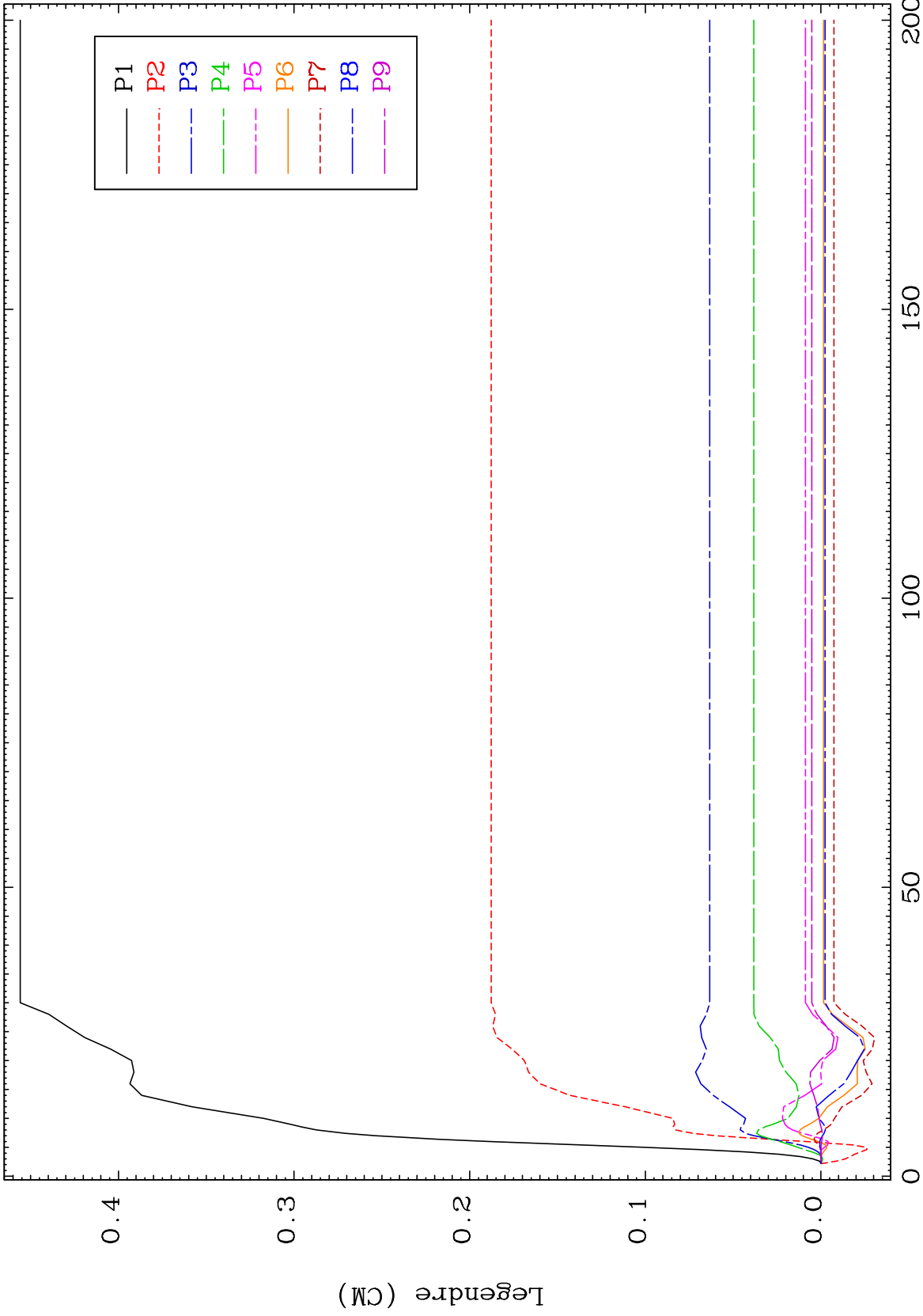
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 73 (n,n') Level
Legendre Coefficients

58-Ce-141



106

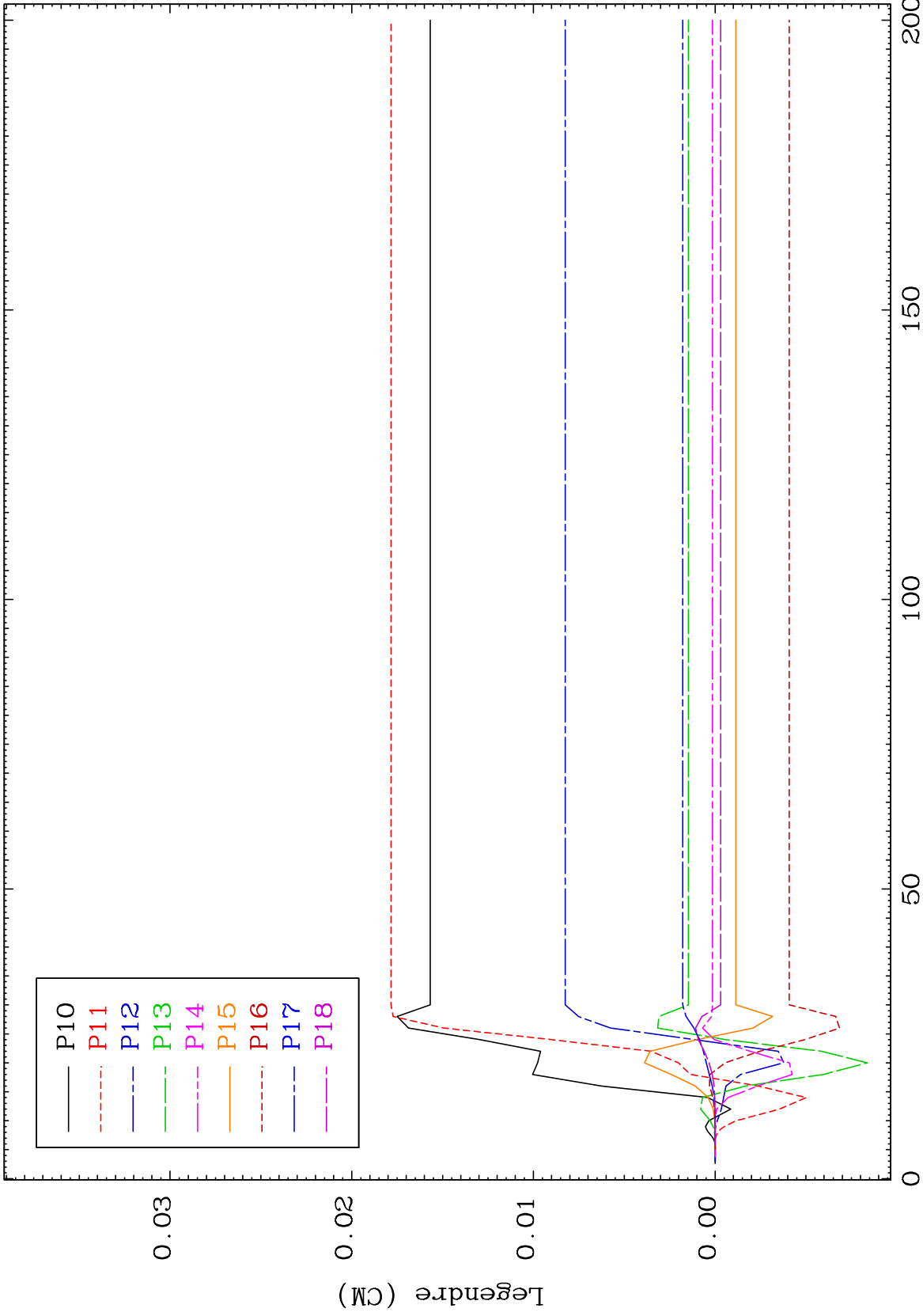
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 73 (n,n') Level
Legendre Coefficients

58-Ce-141



107

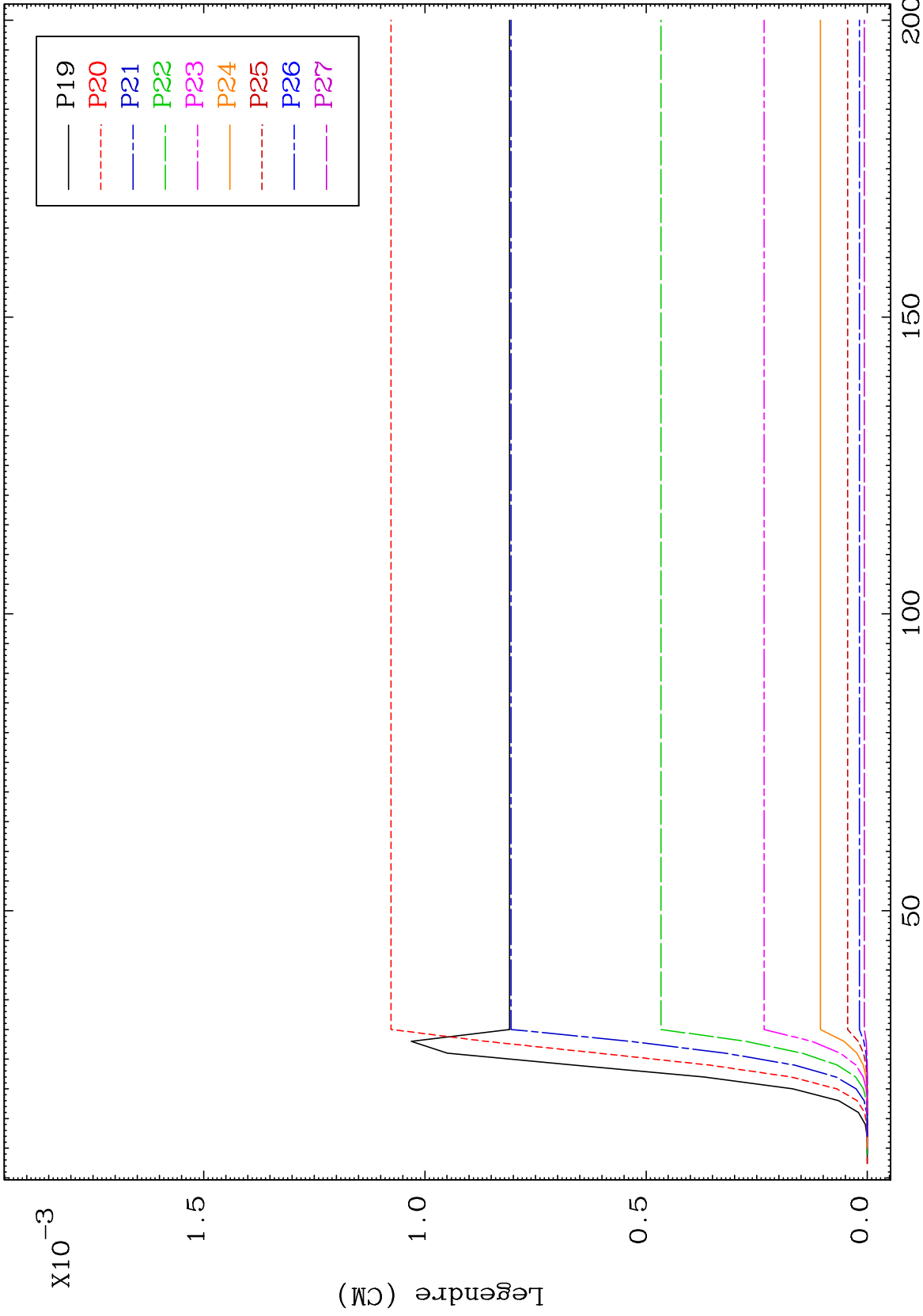
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 73 (n,n') Level
Legendre Coefficients

58-Ce-141



108

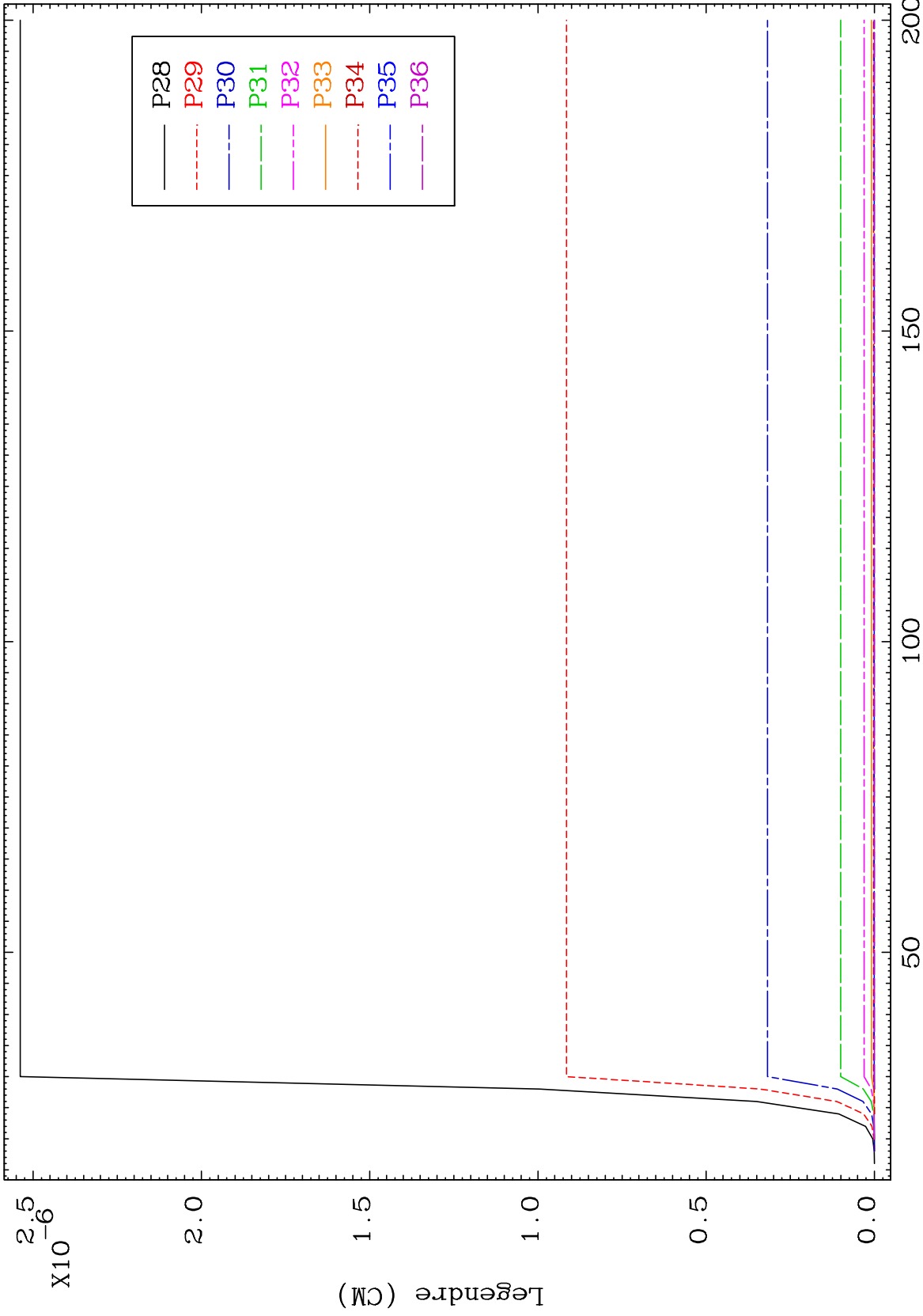
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 73 (n,n') Level
Legendre Coefficients

58-Ce-141



109

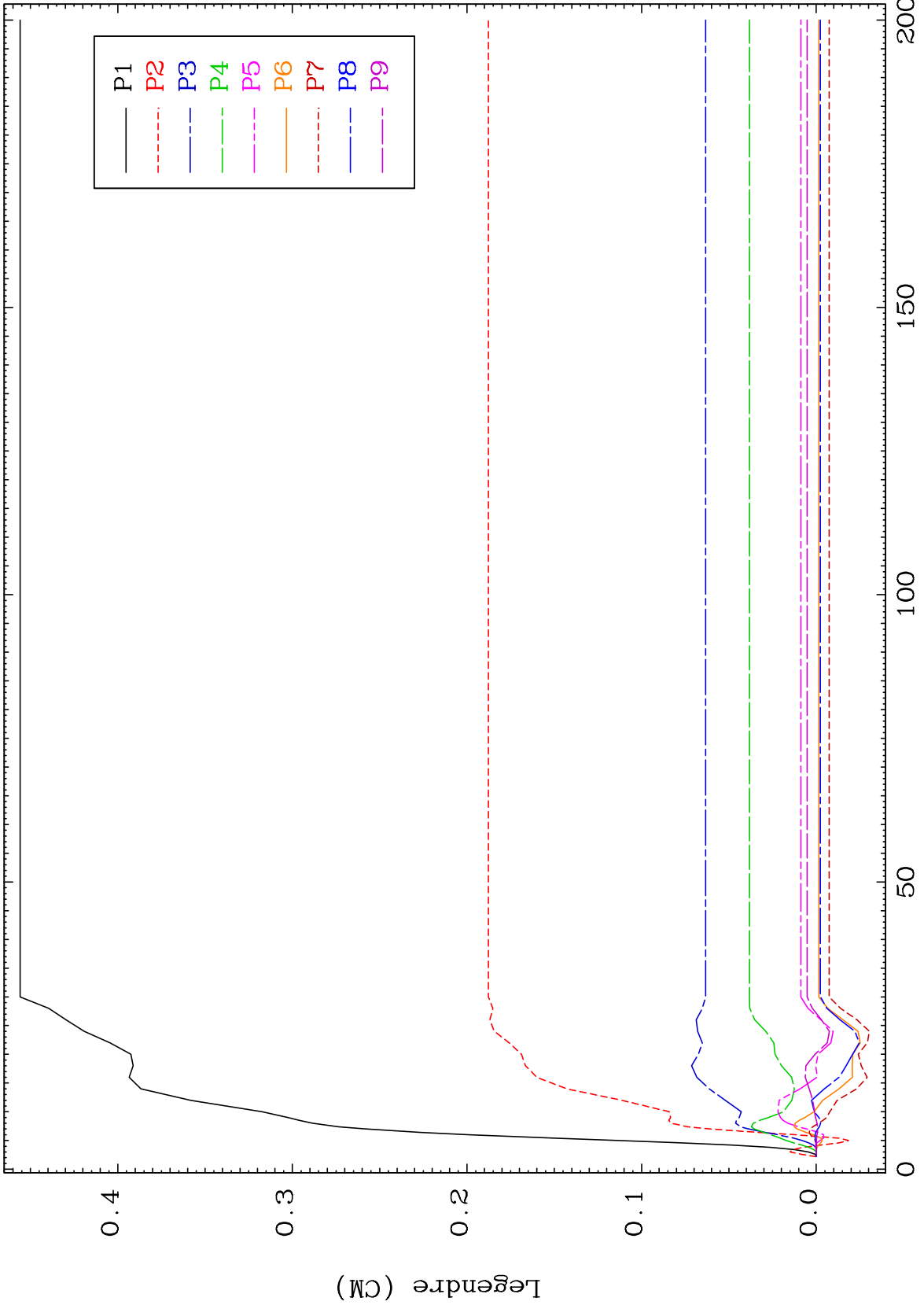
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 74 (n,n') Level
Legendre Coefficients

58-Ce-141



110

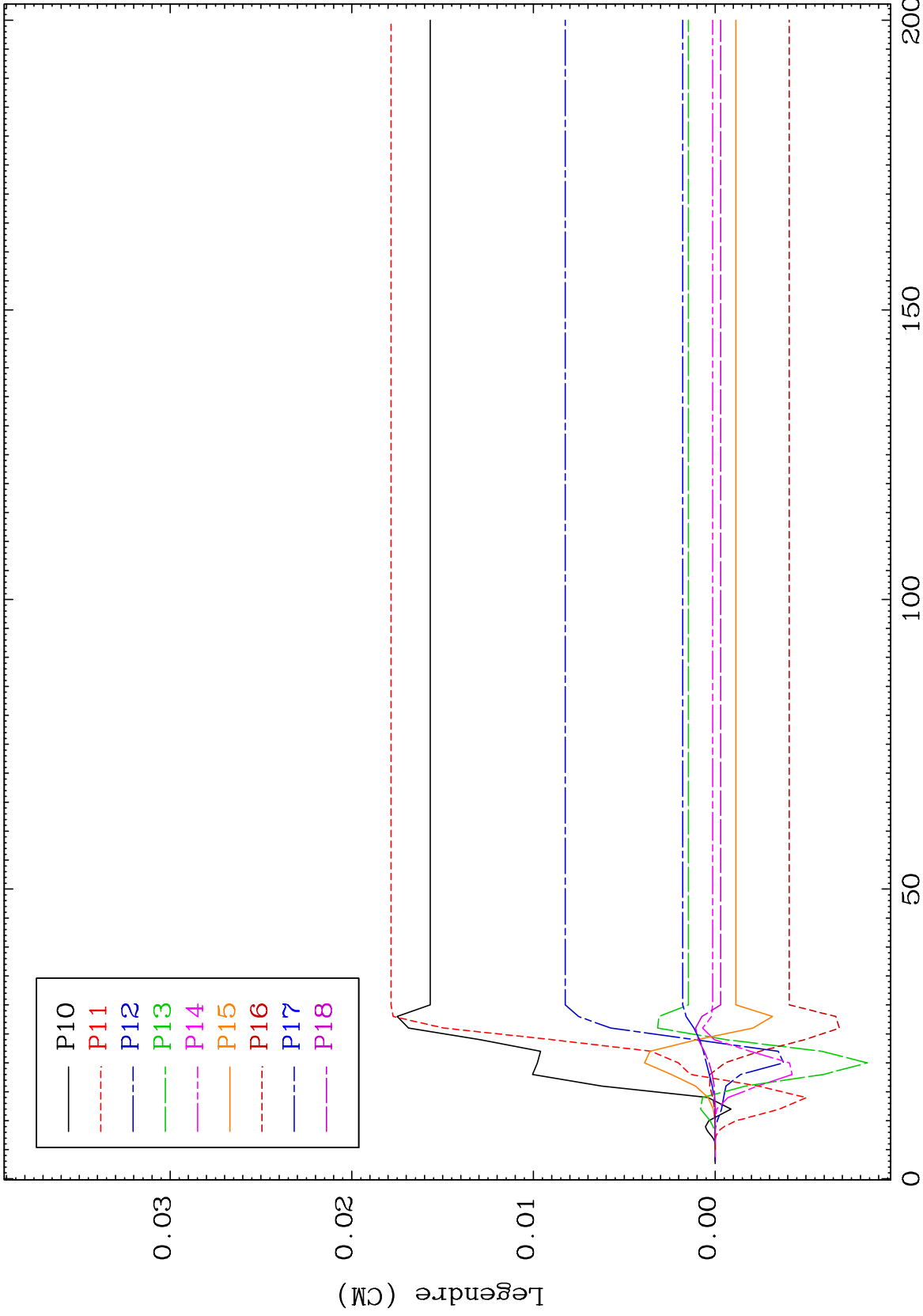
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 74 (n,n') Level
Legendre Coefficients

58-Ce-141



111

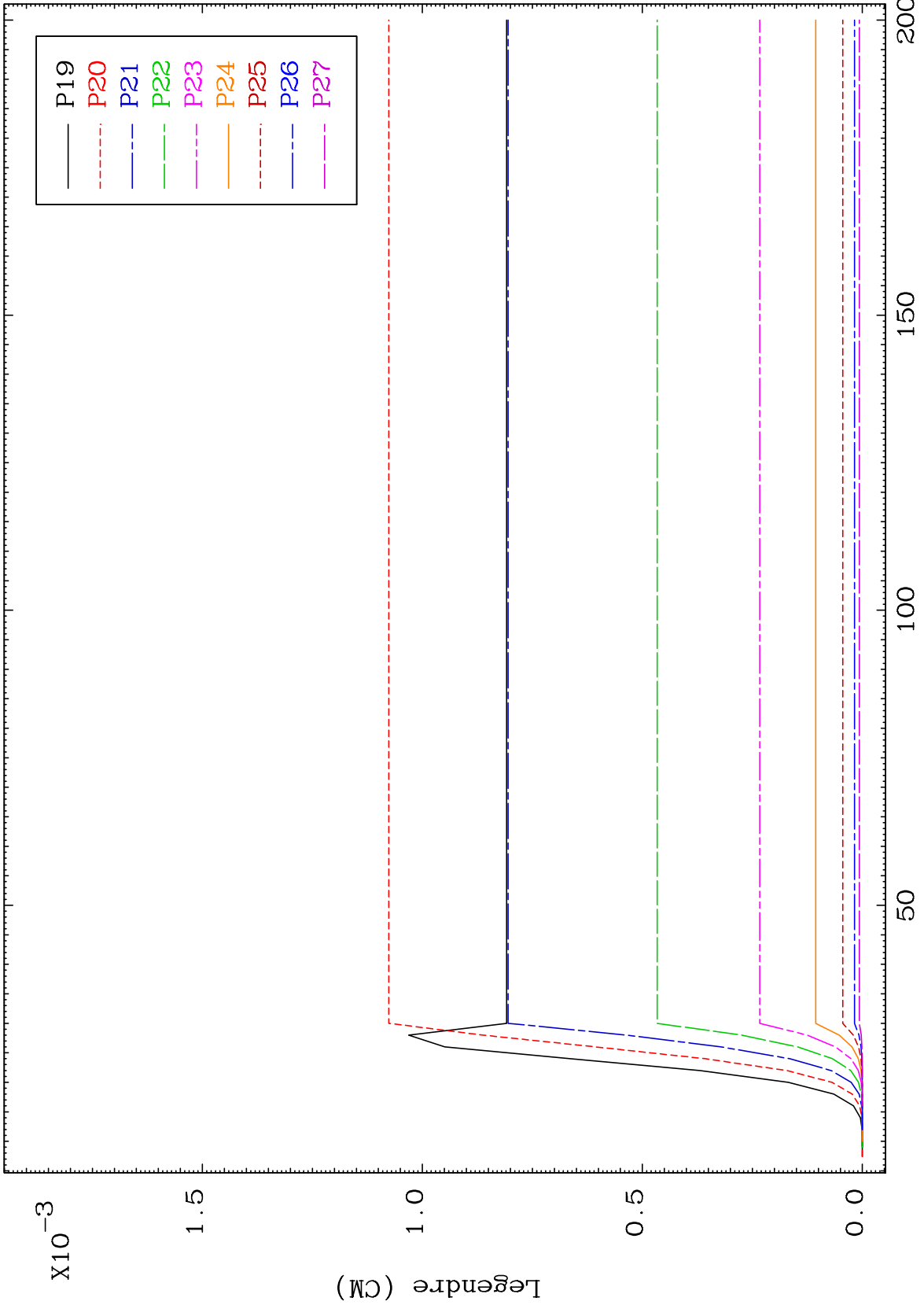
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 74 (n,n') Level
Legendre Coefficients

58-Ce-141



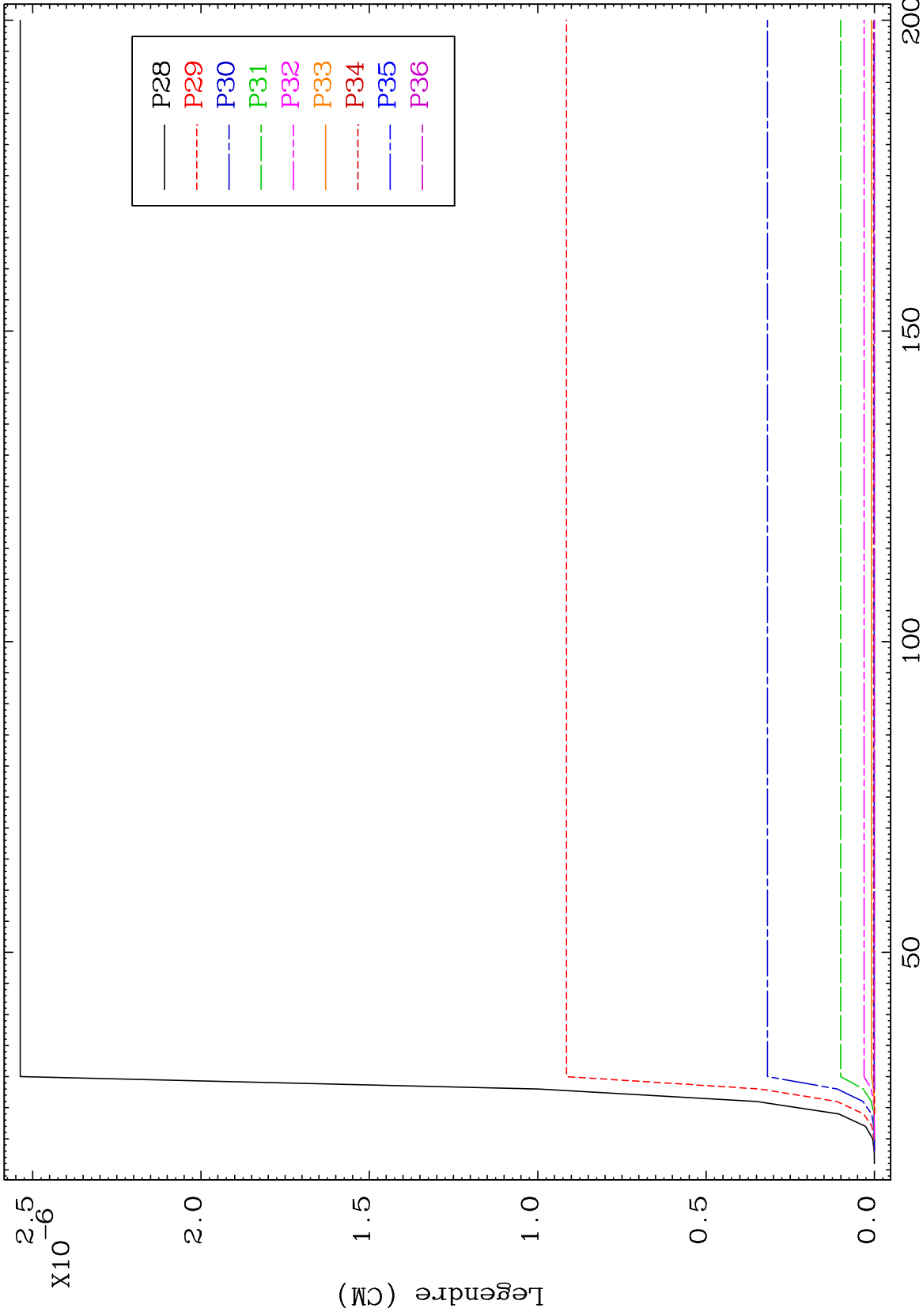
112

58-Ce-141

MAT 5840

MT= 74 (n,n') Level
Legendre Coefficients

58-Ce-141



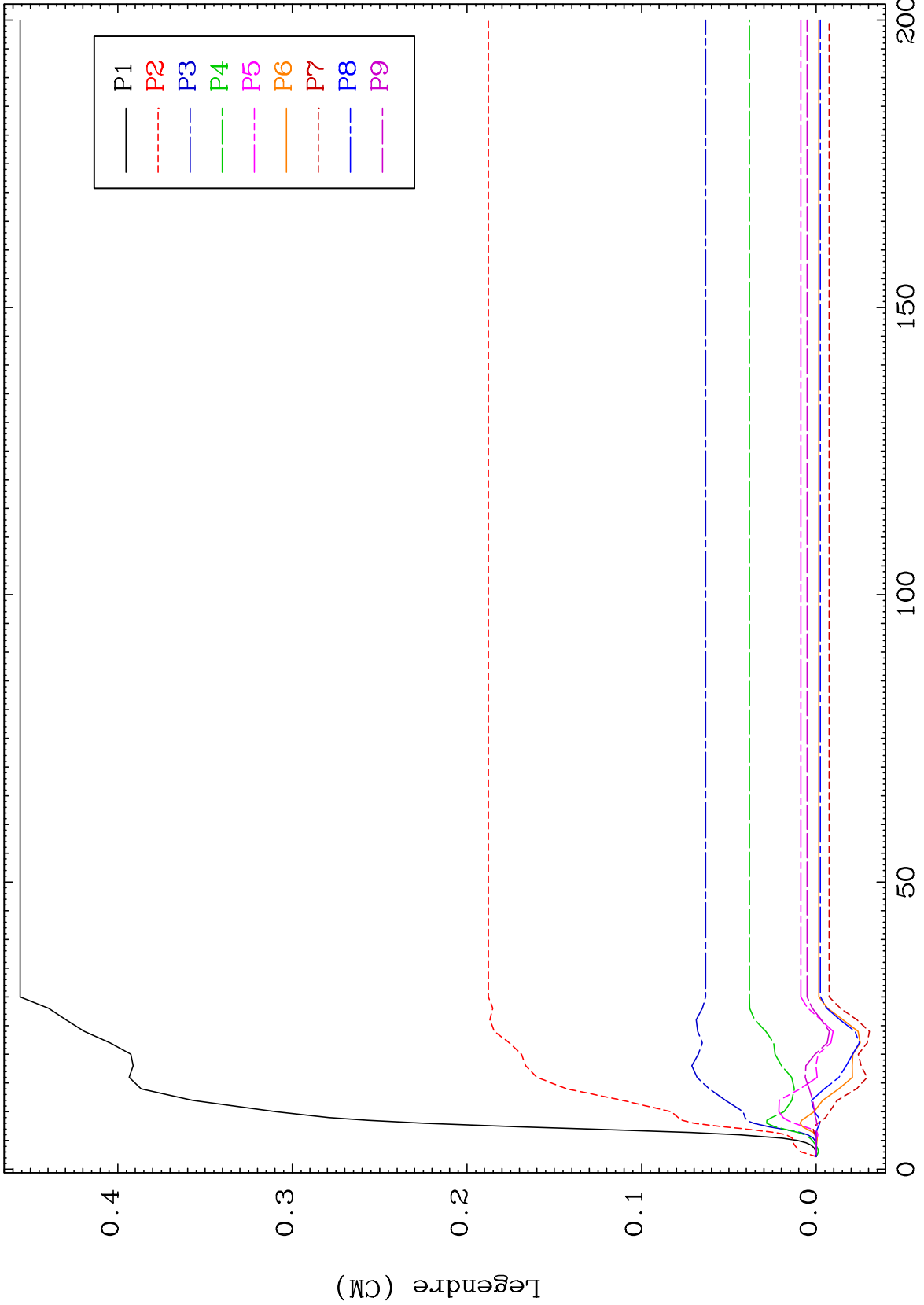
113

58-Ce-141

MAT 5840

MT= 75 (n,n') Level
Legendre Coefficients

58-Ce-141



114

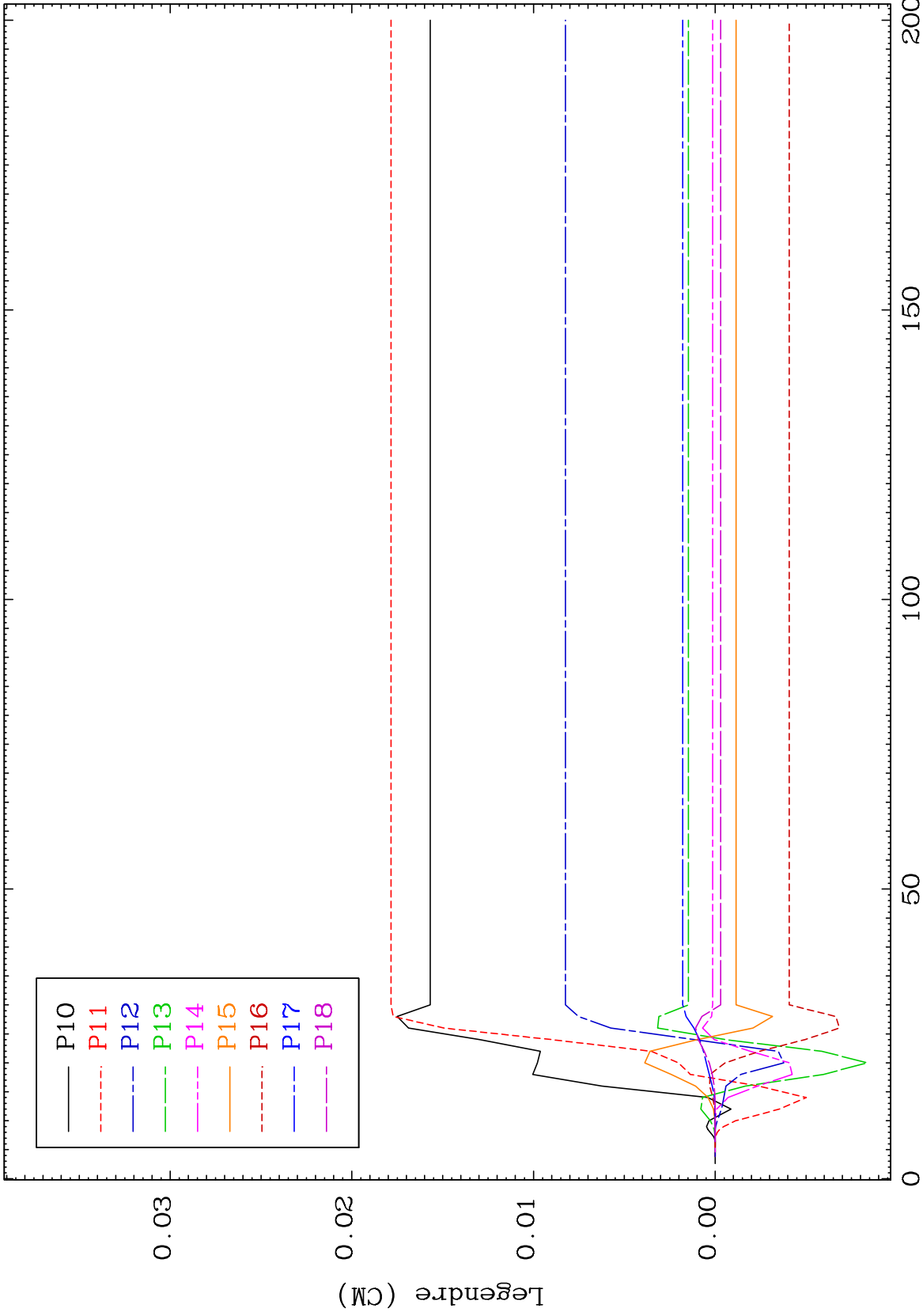
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 75 (n,n') Level
Legendre Coefficients

58-Ce-141



115

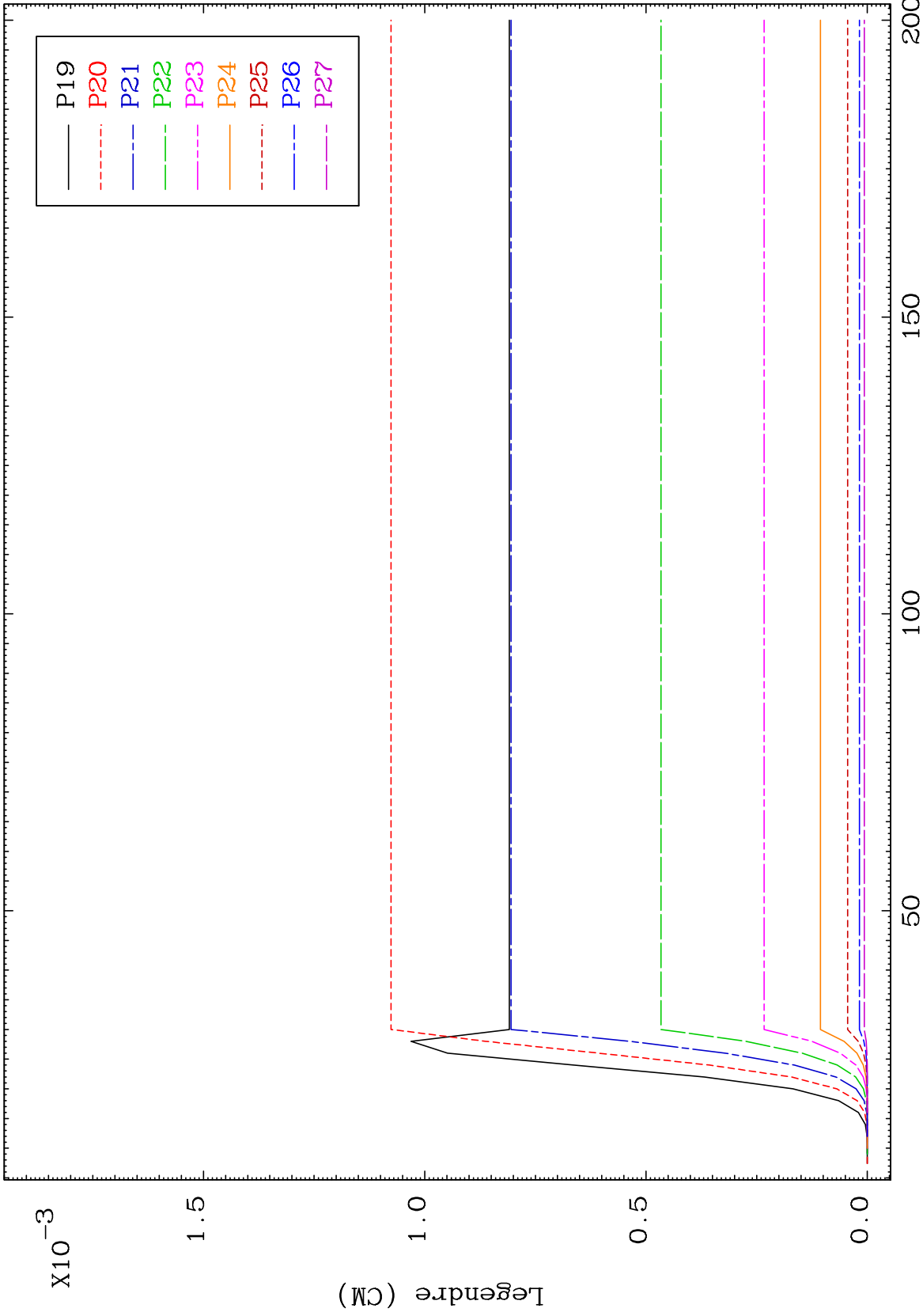
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 75 (n,n') Level
Legendre Coefficients

58-Ce-141



116

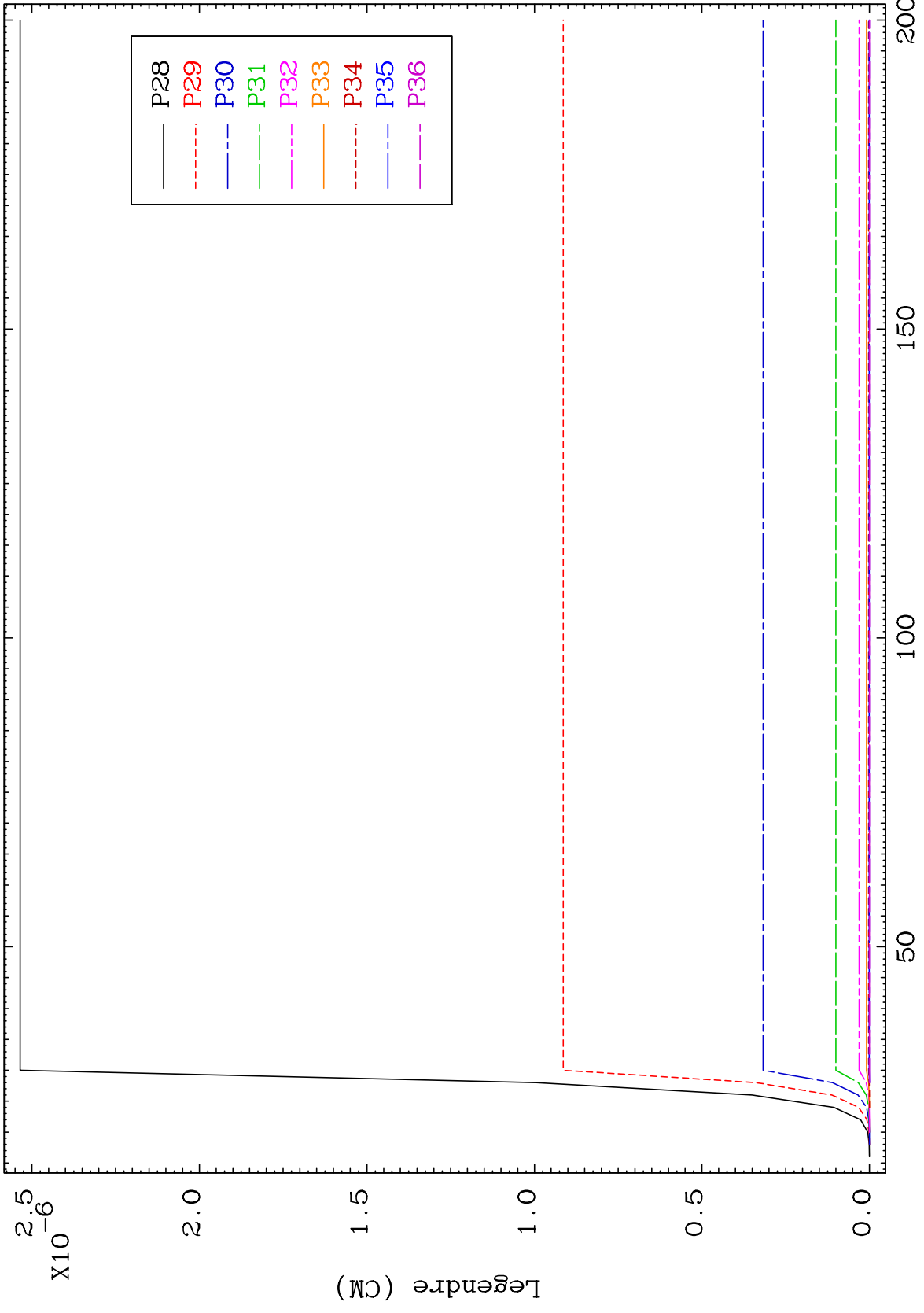
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 75 (n,n') Level
Legendre Coefficients

58-Ce-141



117

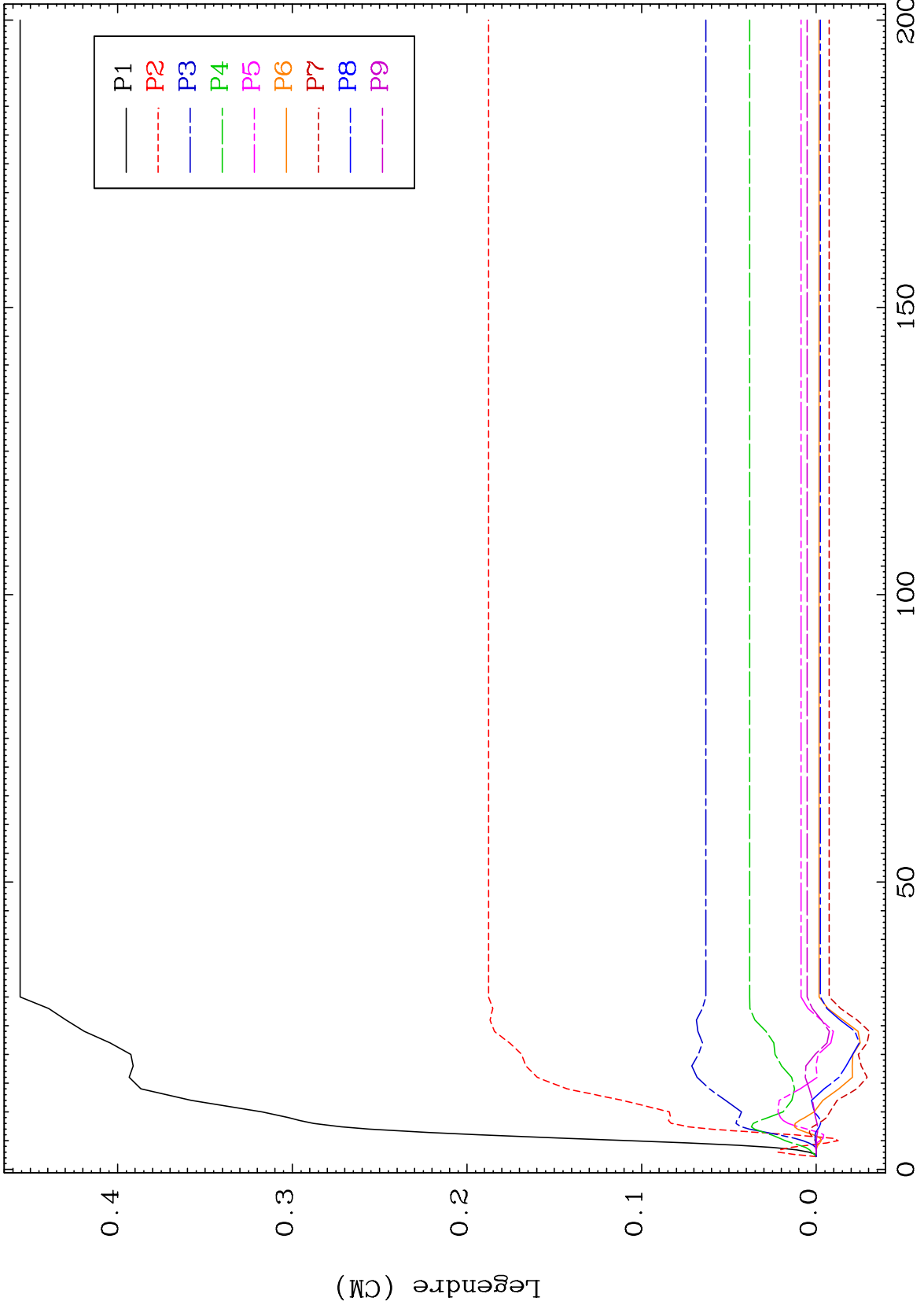
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 76 (n,n') Level
Legendre Coefficients

58-Ce-141



118

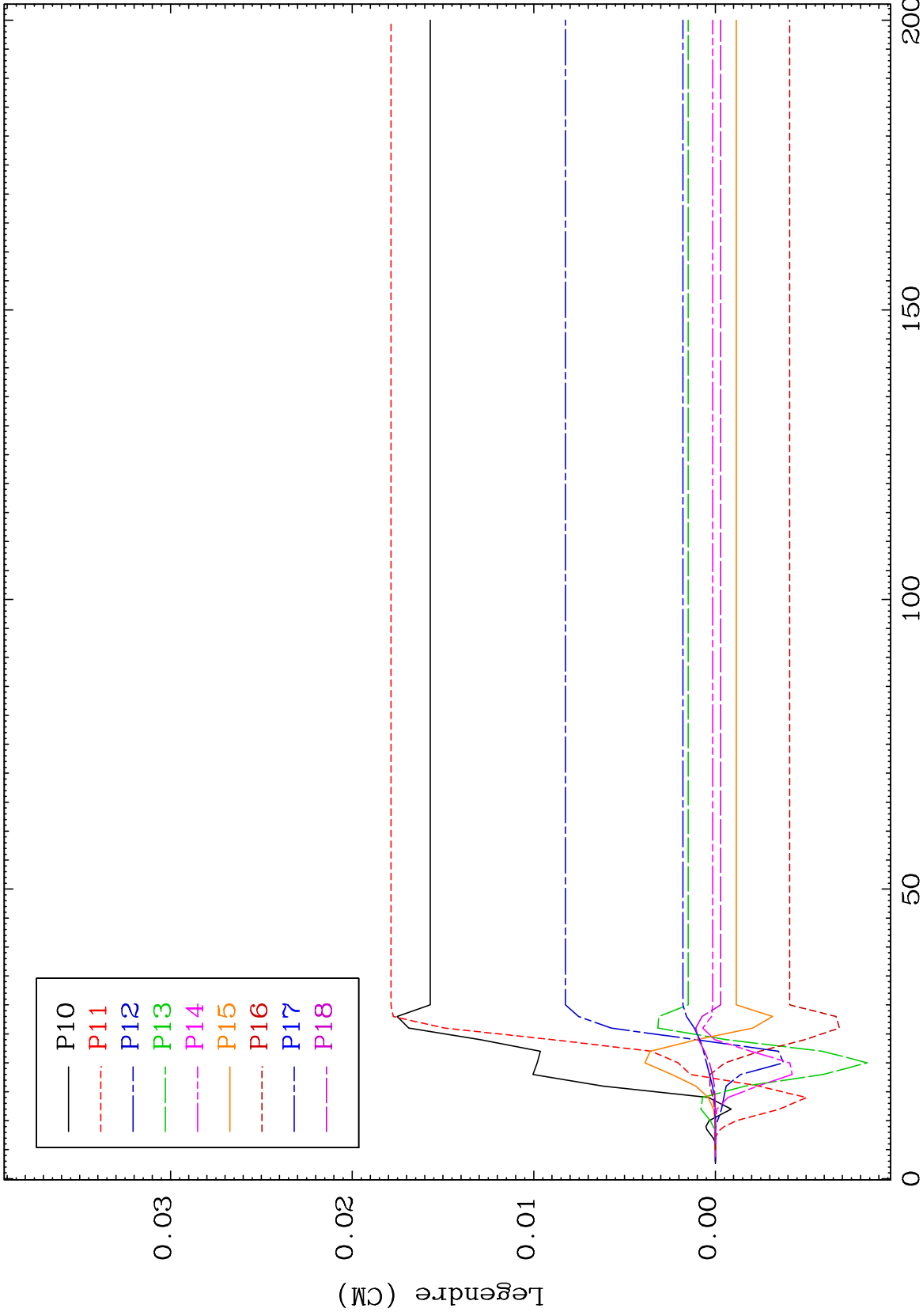
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 76 (n,n') Level
Legendre Coefficients

58-Ce-141



119

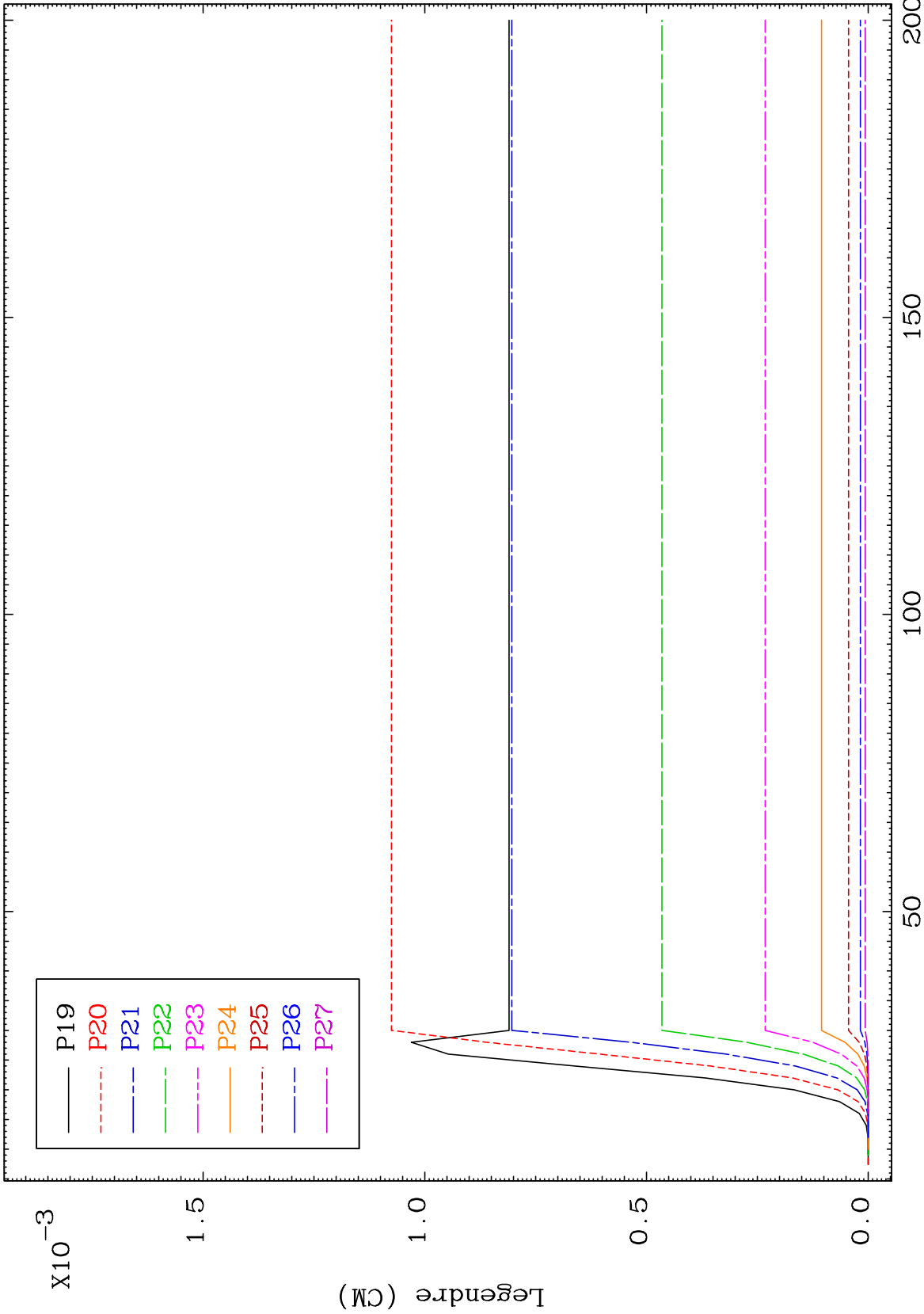
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 76 (n,n') Level
Legendre Coefficients

58-Ce-141



120

50

100

150

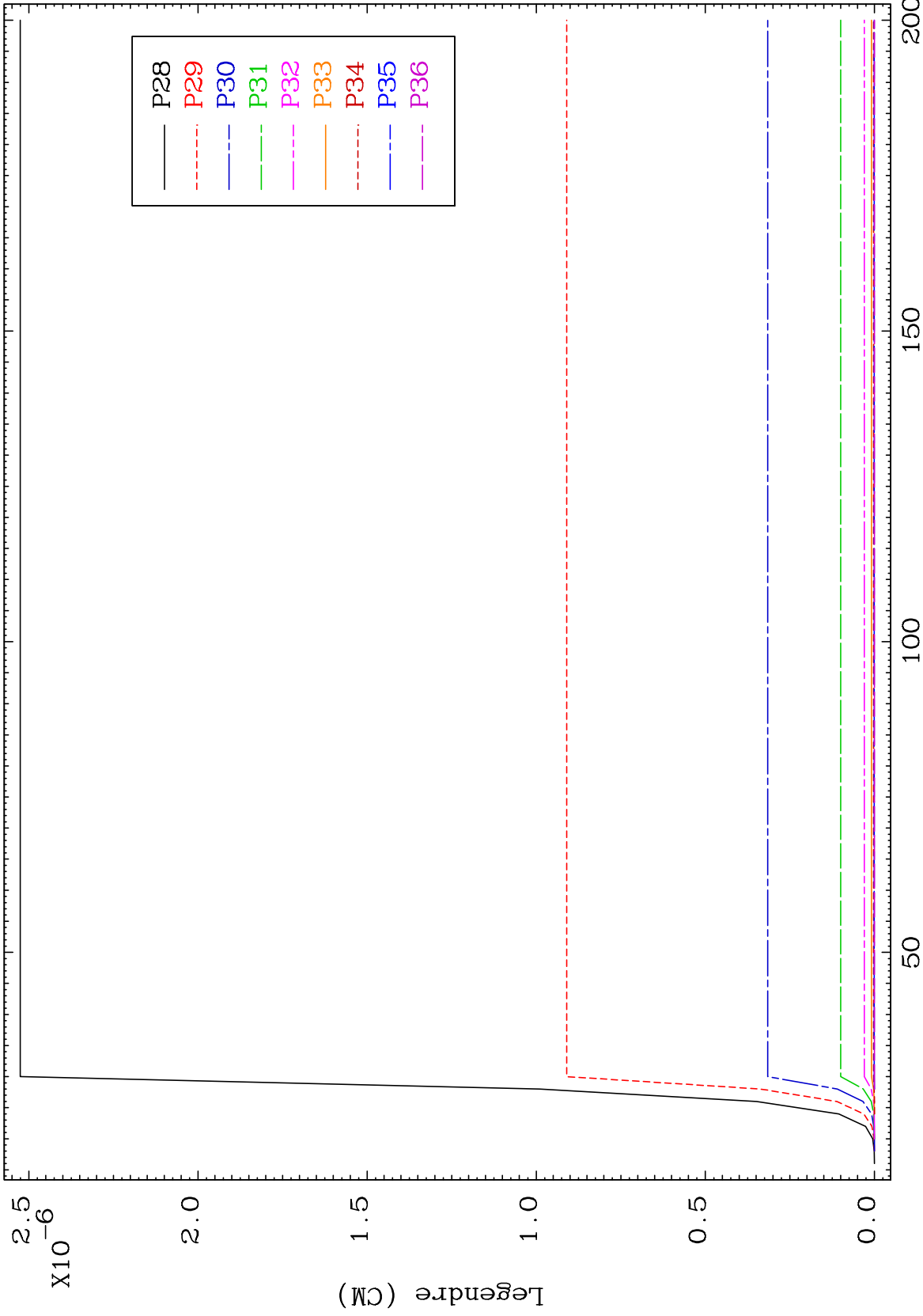
200

58-Ce-141

MAT 5840

MT= 76 (n,n') Level
Legendre Coefficients

58-Ce-141



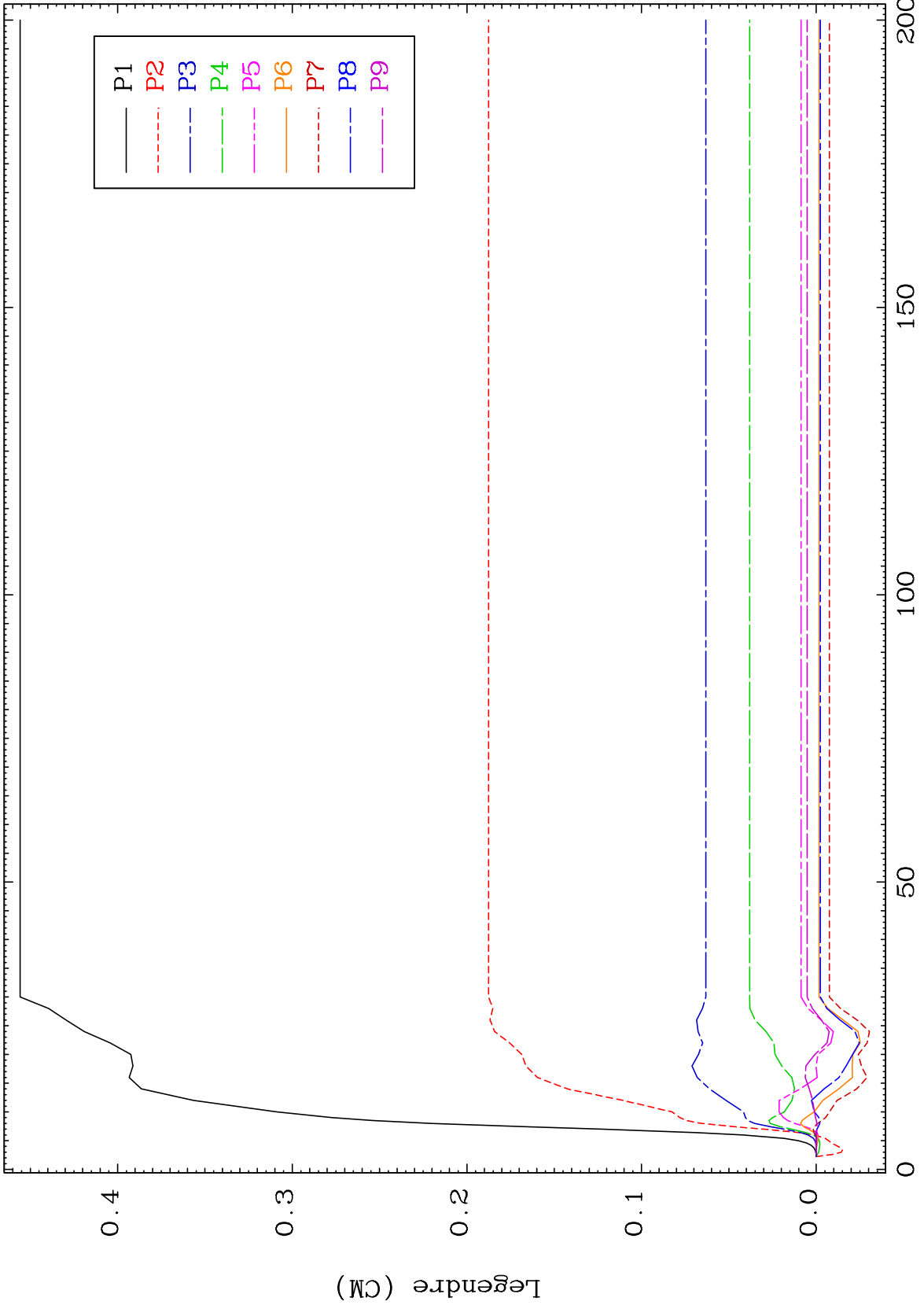
121

58-Ce-141

MAT 5840

MT= 77 (n,n') Level
Legendre Coefficients

58-Ce-141



122

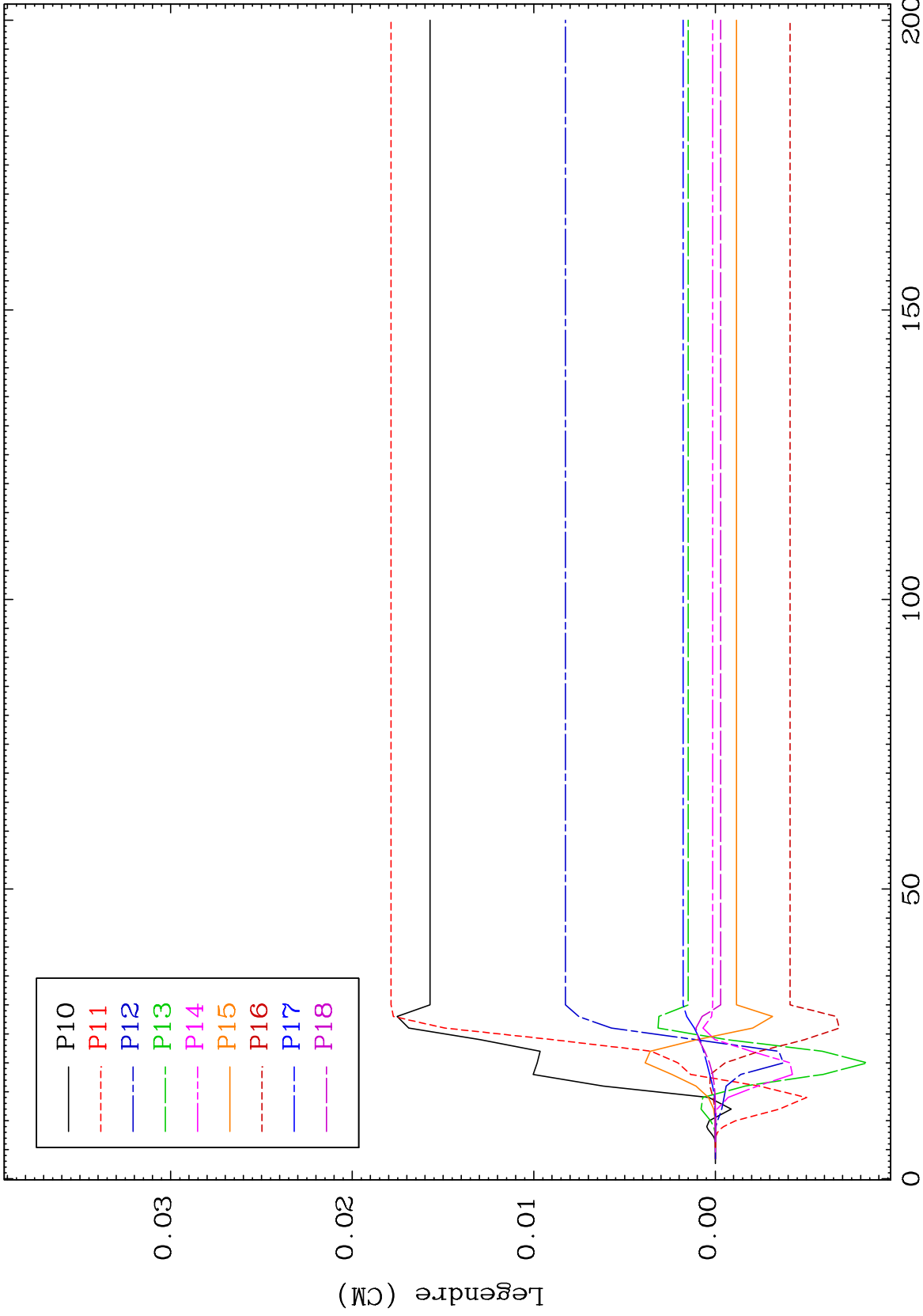
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 77 (n,n') Level
Legendre Coefficients

58-Ce-141



123

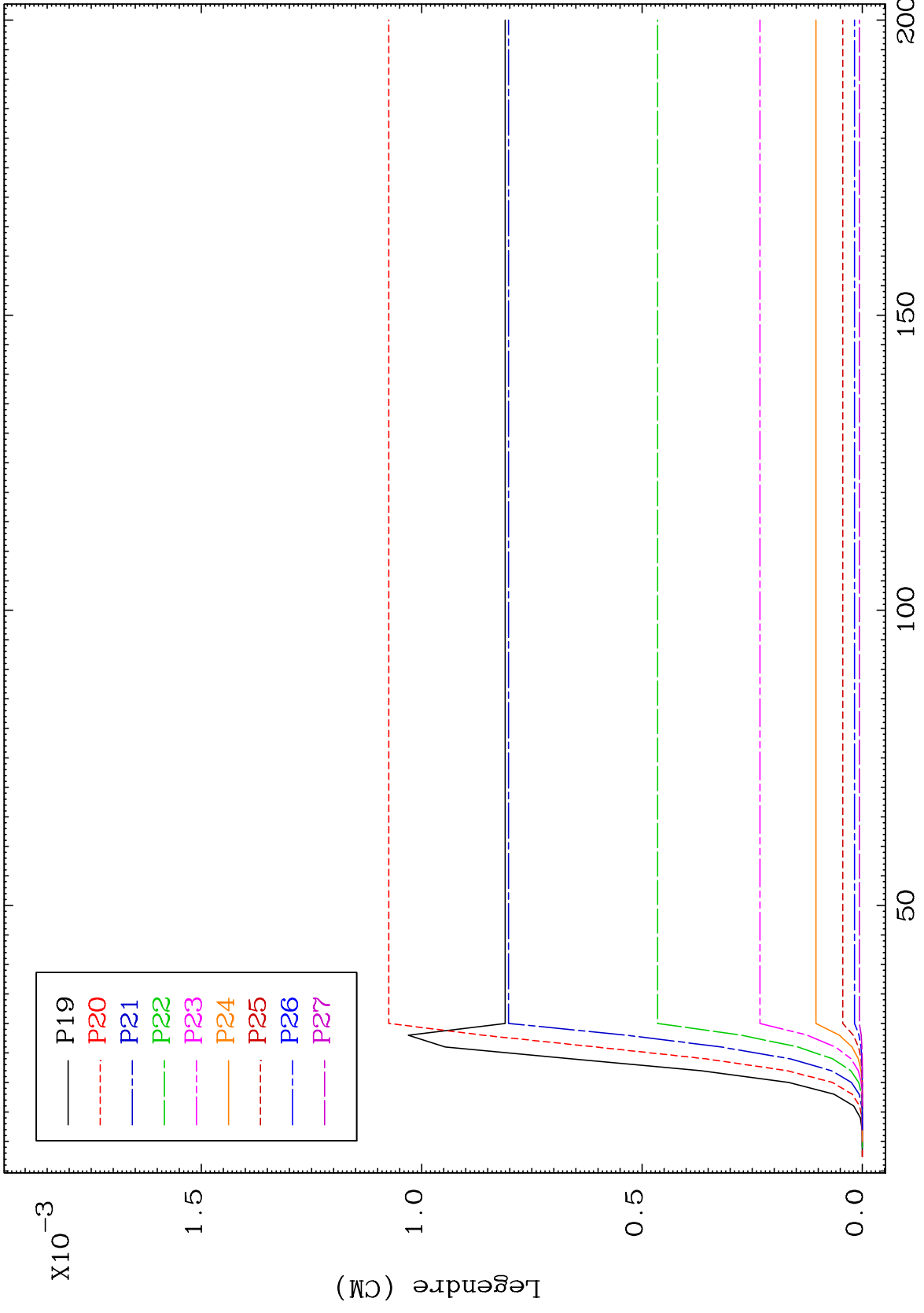
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 77 (n,n') Level
Legendre Coefficients

58-Ce-141

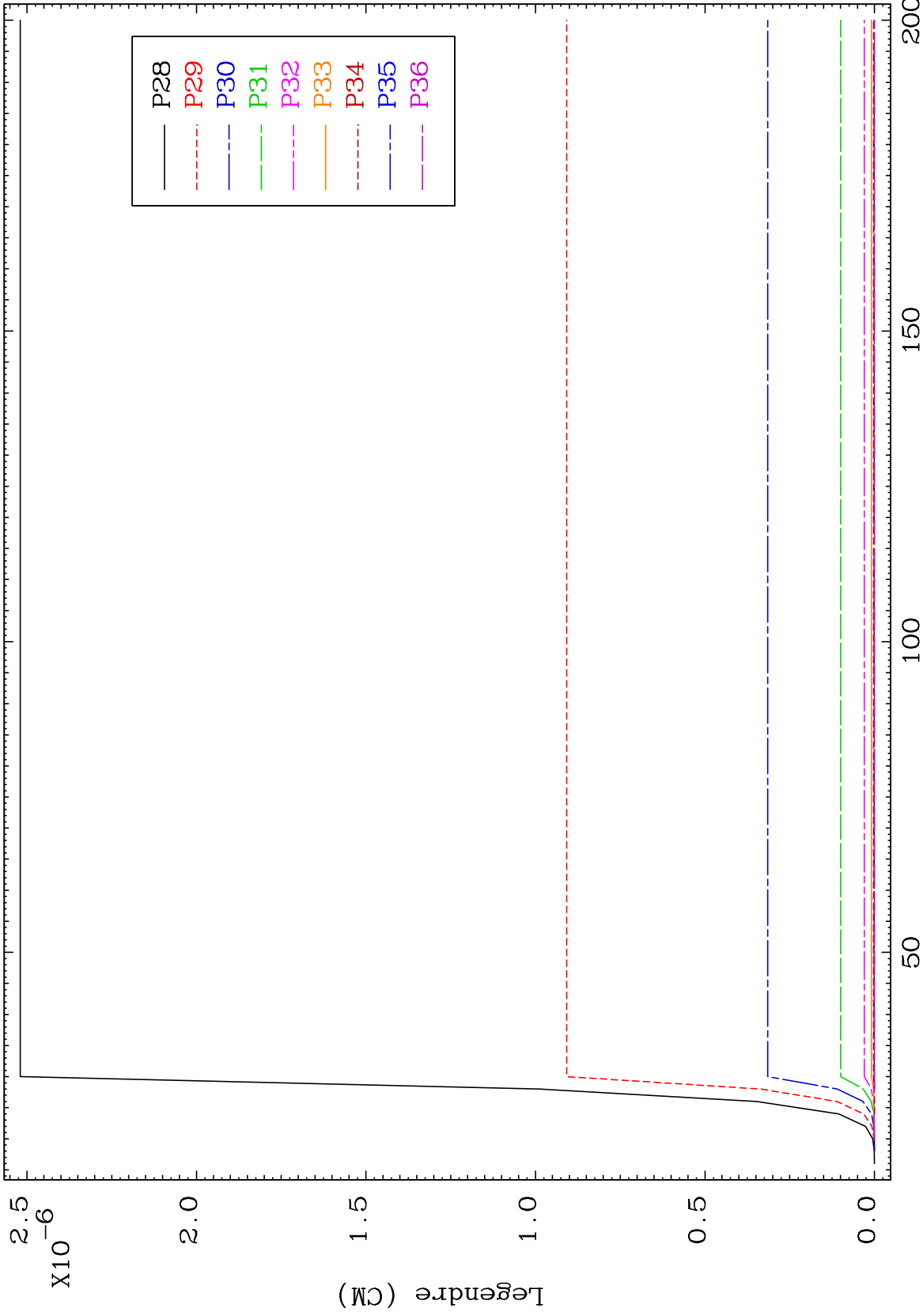


124

MAT 5840

MT= 77 (n,n') Level
Legendre Coefficients

58-Ce-141



125

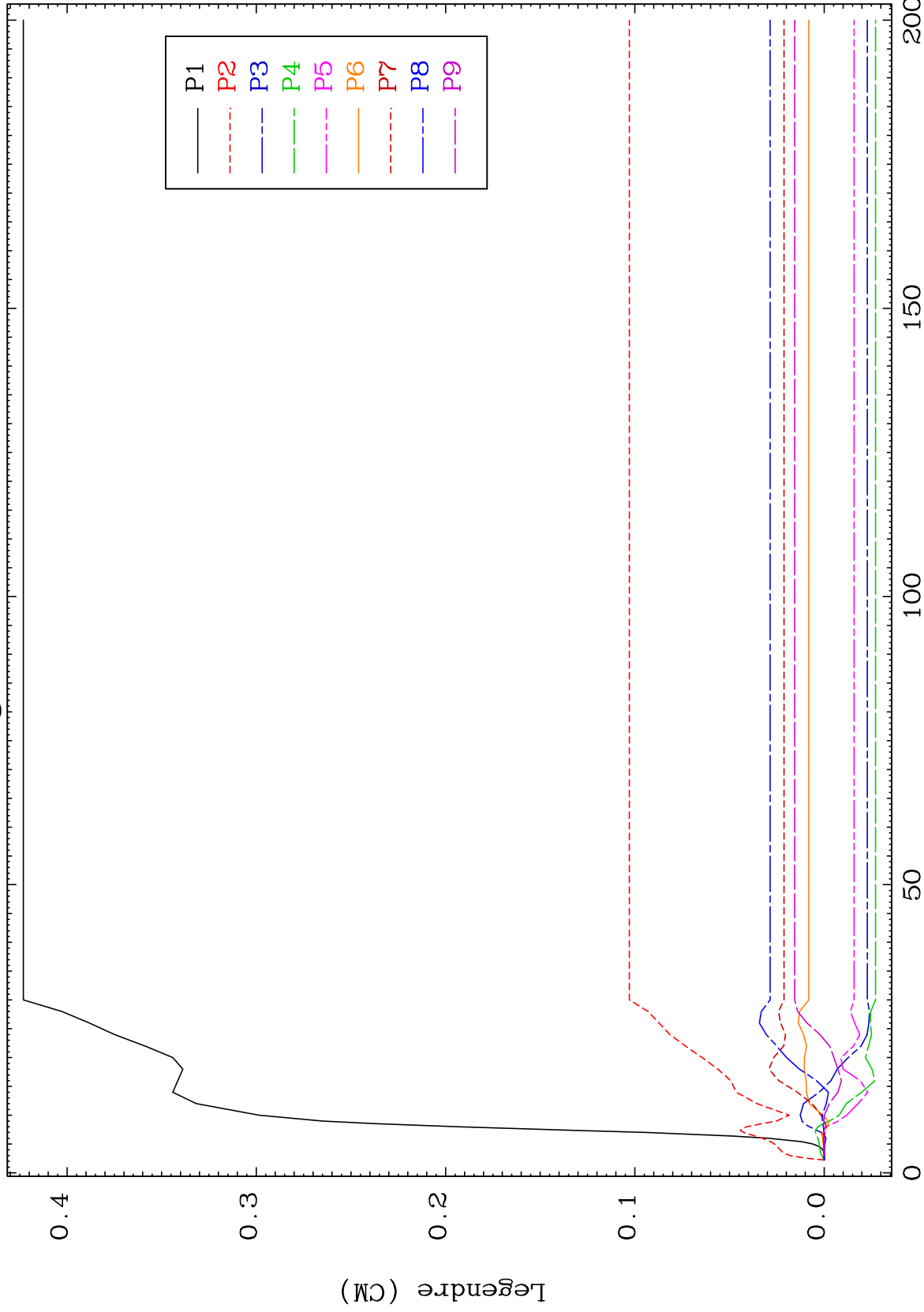
Incident Energy (MeV)

58-Ce-141

MAT 5840

MT= 78 (n,n') Level
Legendre Coefficients

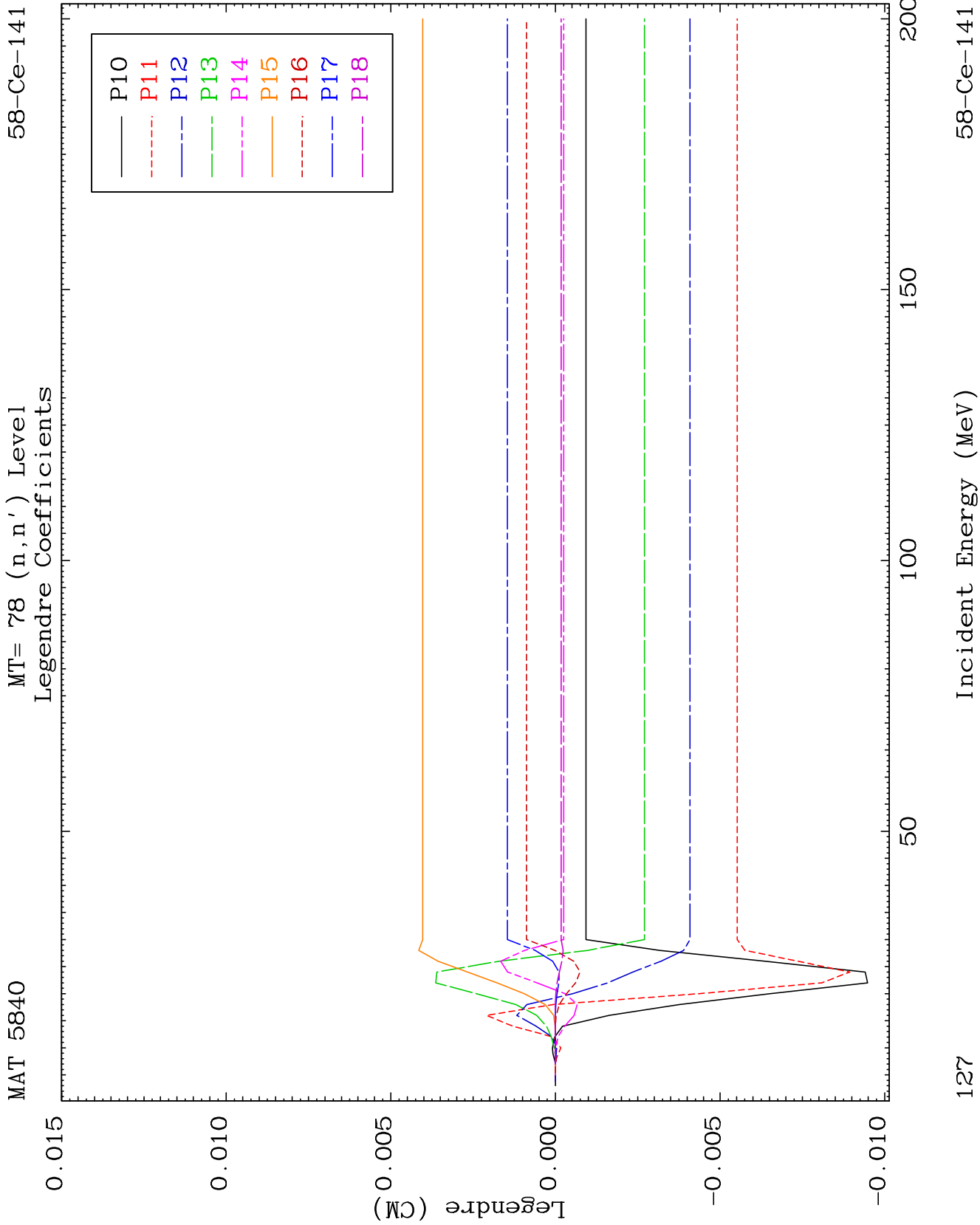
58-Ce-141



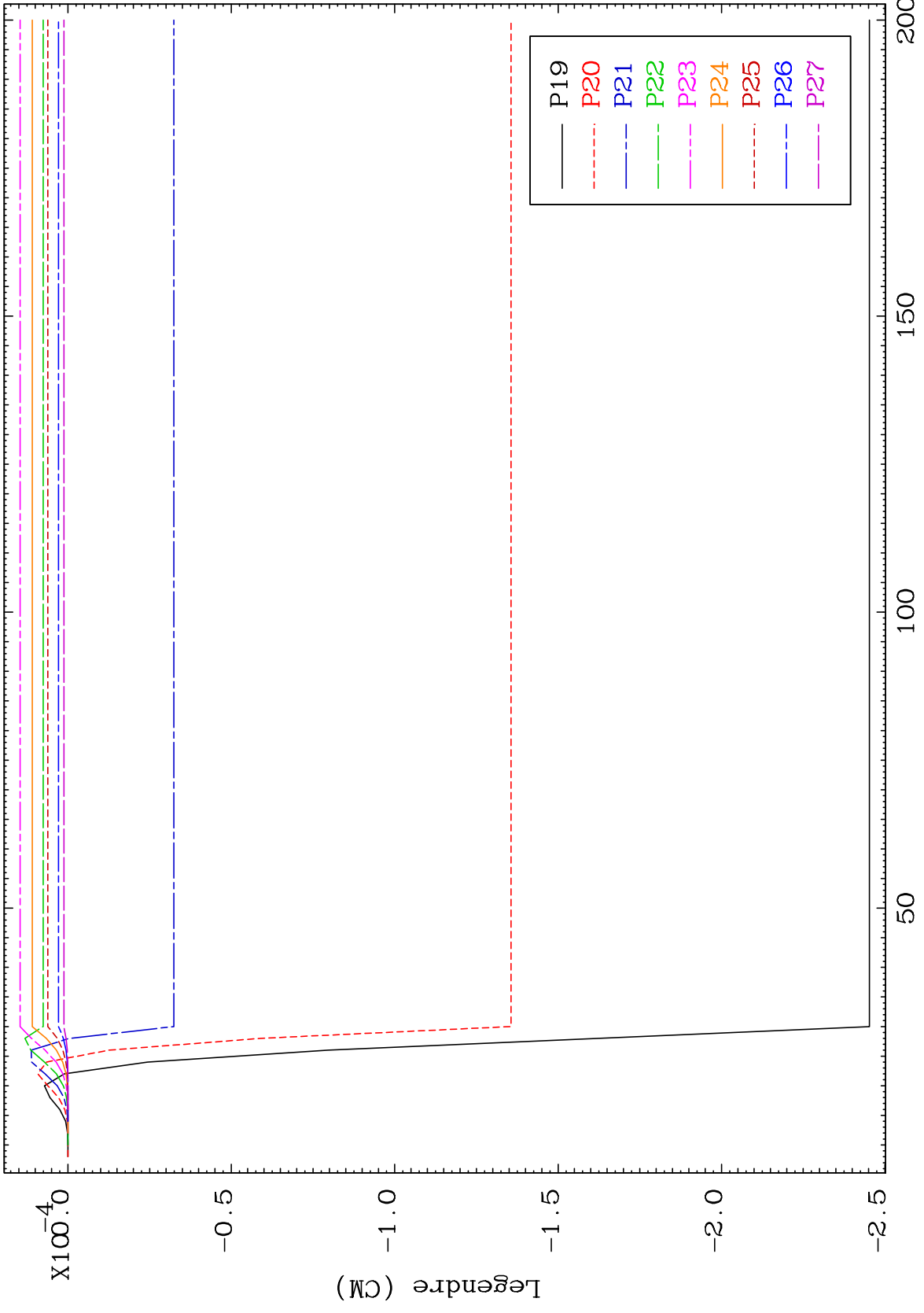
126

Incident Energy (MeV)

58-Ce-141



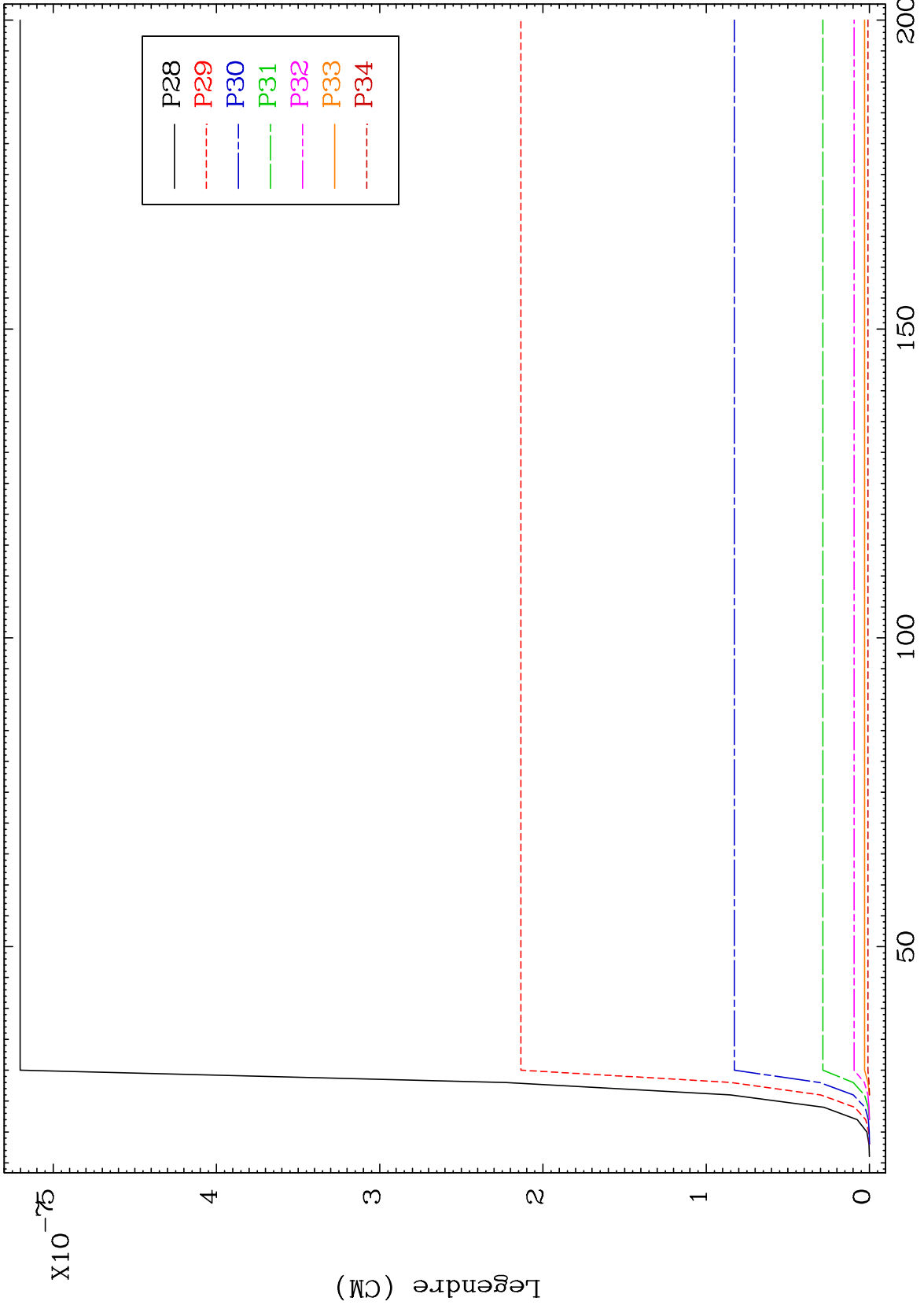
MAT 5840 MT= 78 (n,n') Level Legendre Coefficients 58-Ce-141



MAT 5840

MT= 78 (n,n') Level
Legendre Coefficients

58-Ce-141



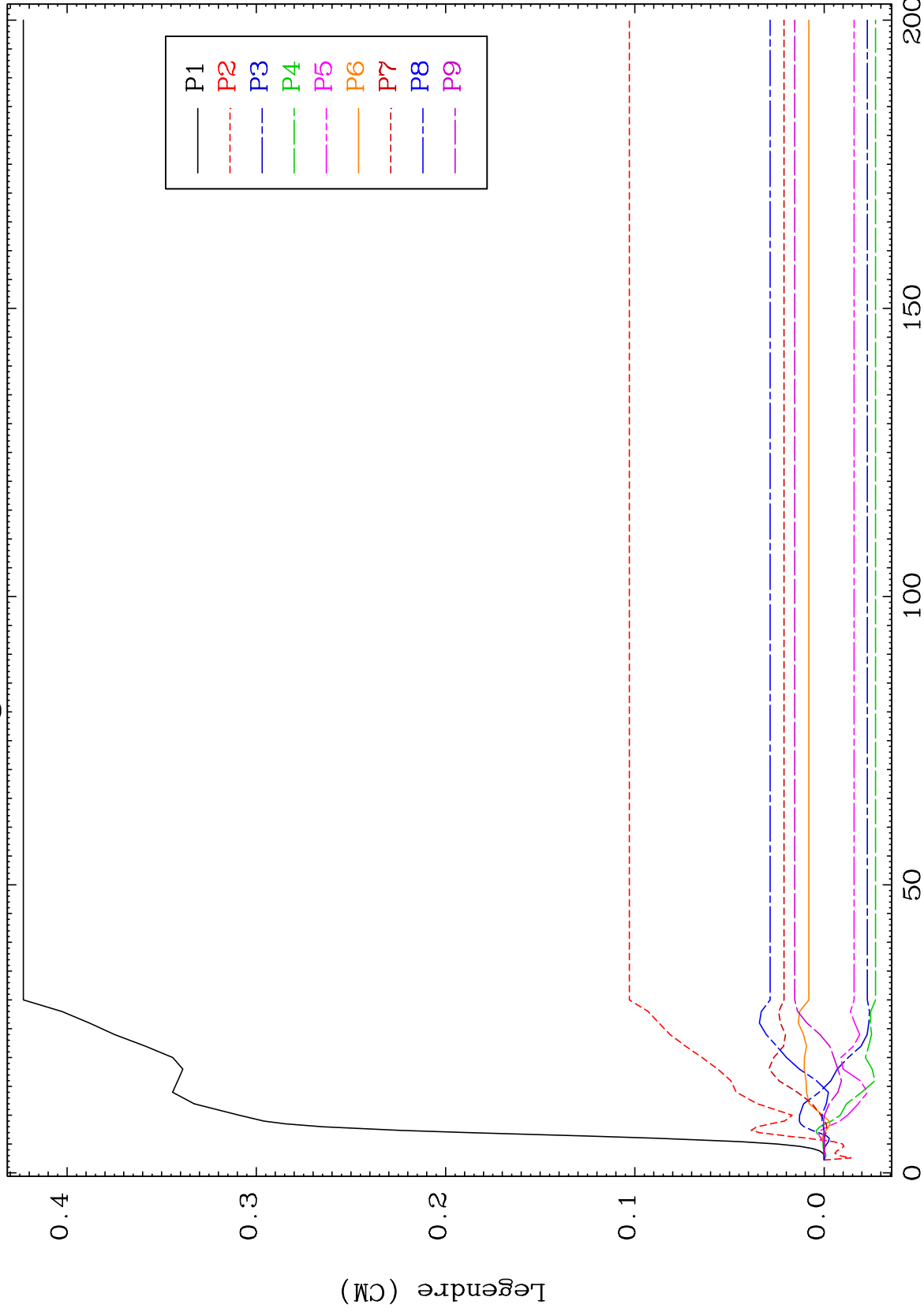
129

58-Ce-141

MAT 5840

MT= 79 (n,n') Level
Legendre Coefficients

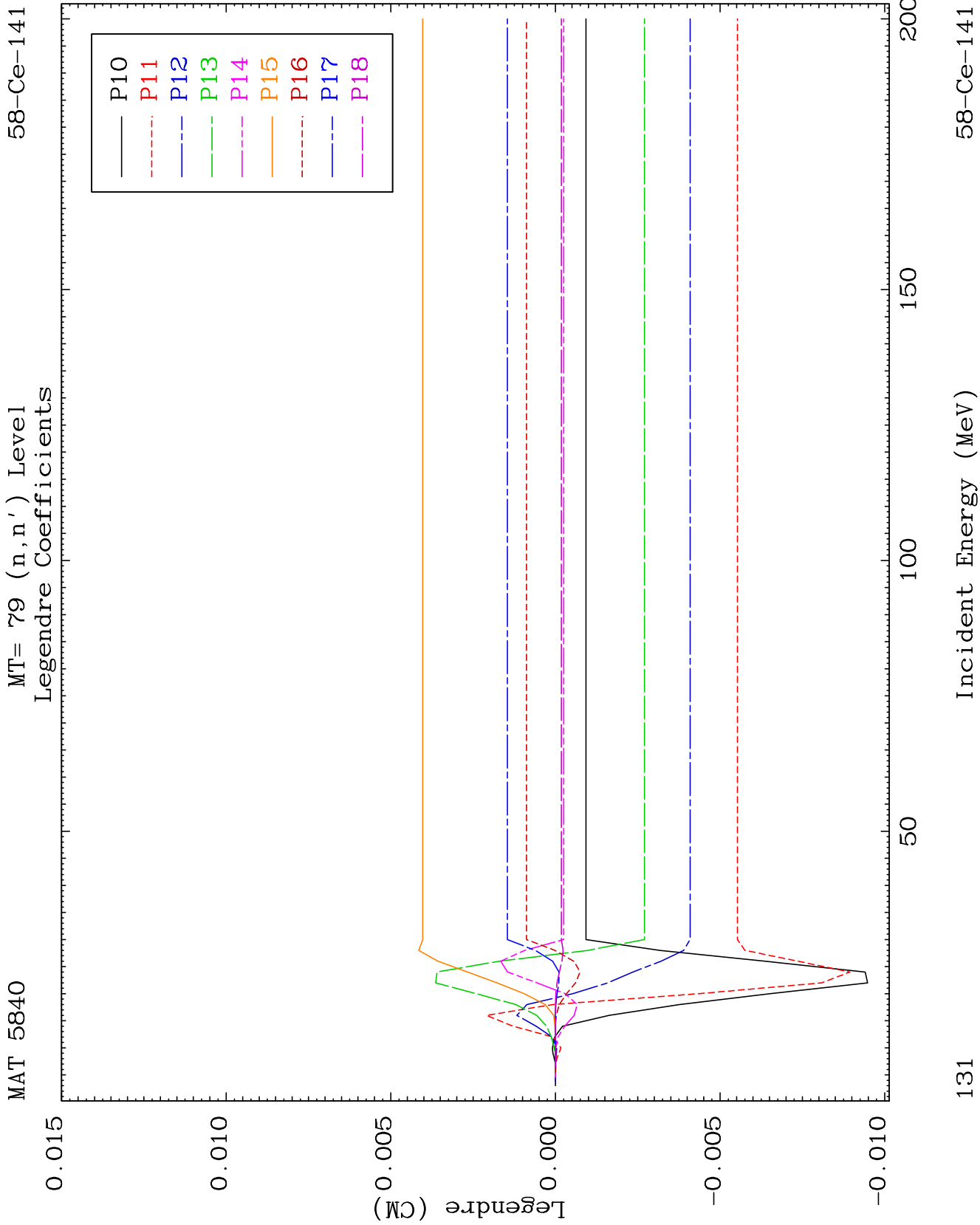
58-Ce-141



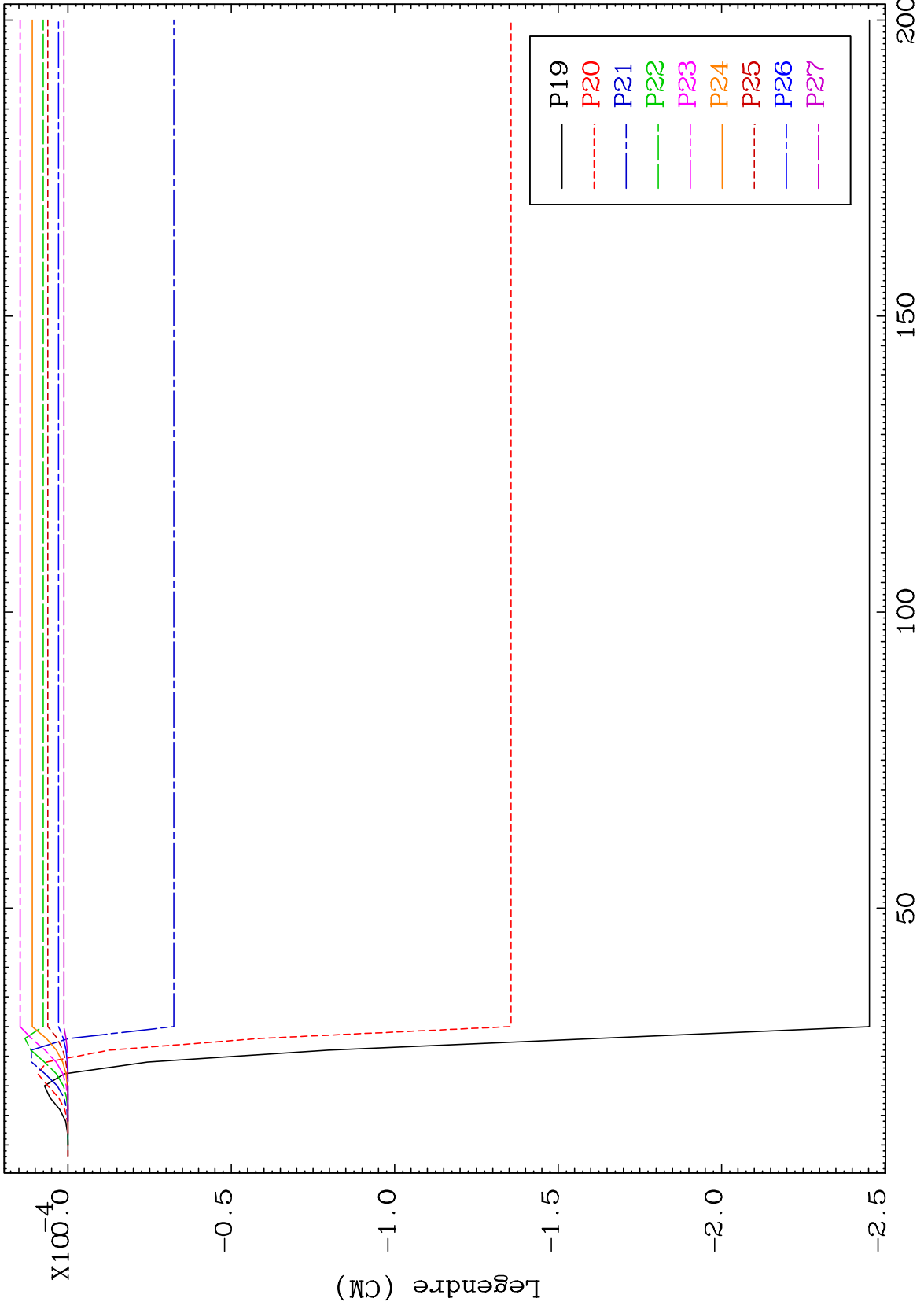
58-Ce-141

Incident Energy (MeV)

130



MAT 5840 MT= 79 (n,n') Level Legendre Coefficients 58-Ce-141

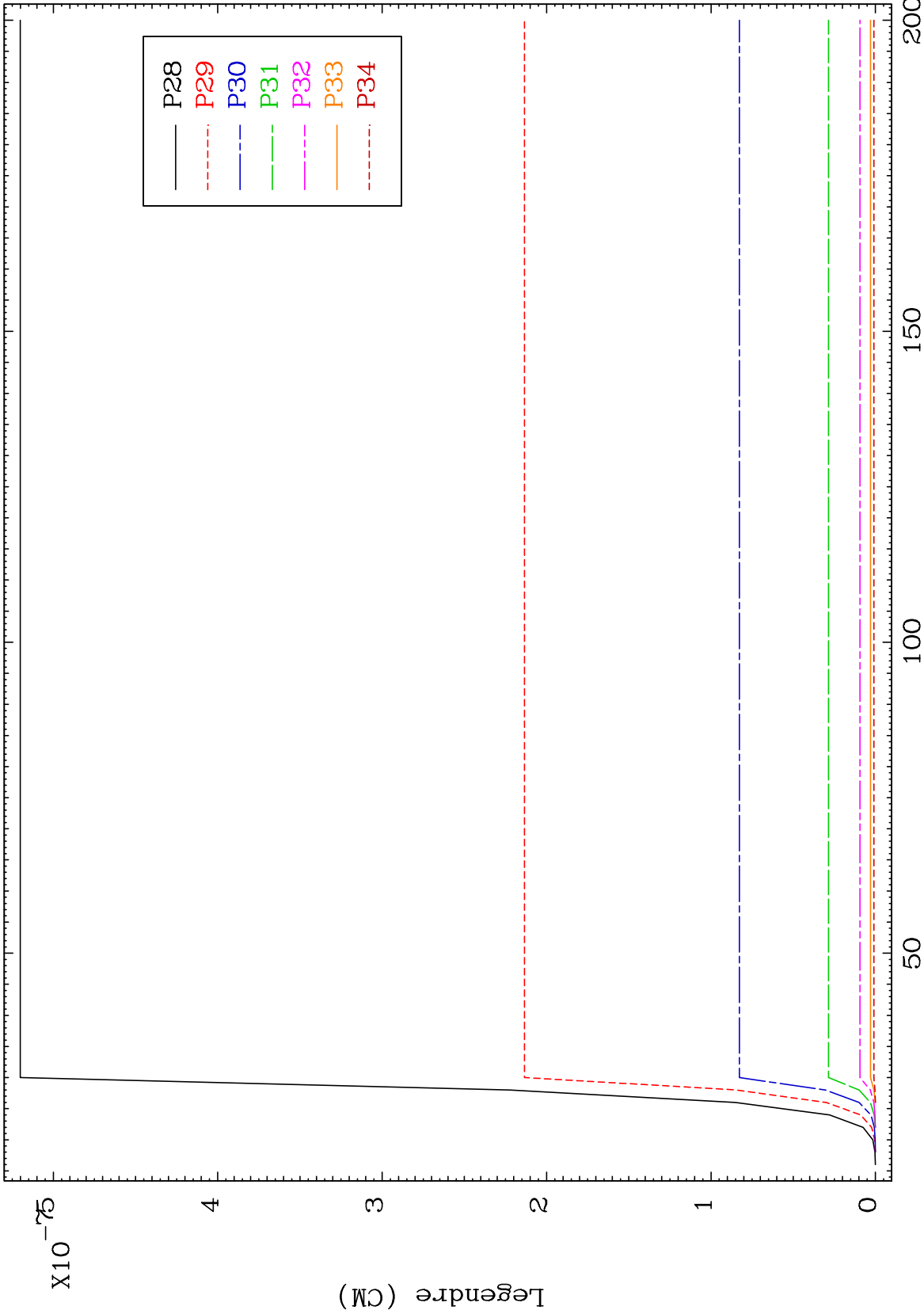


132 58-Ce-141

MAT 5840

MT= 79 (n,n') Level
Legendre Coefficients

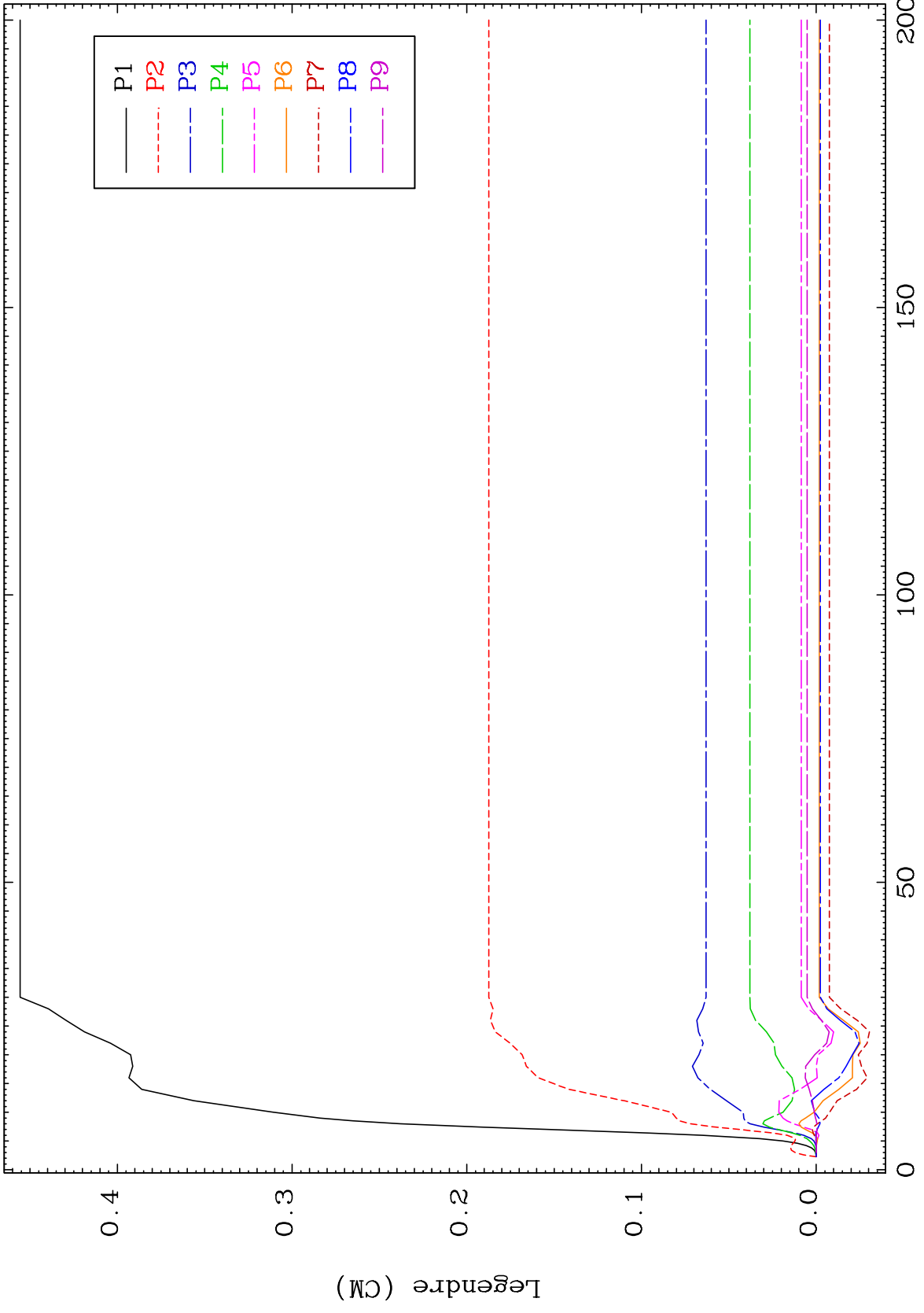
58-Ce-141



133

58-Ce-141

MAT 5840 MT= 80 (n,n') Level Legendre Coefficients 58-Ce-141



134 58-Ce-141

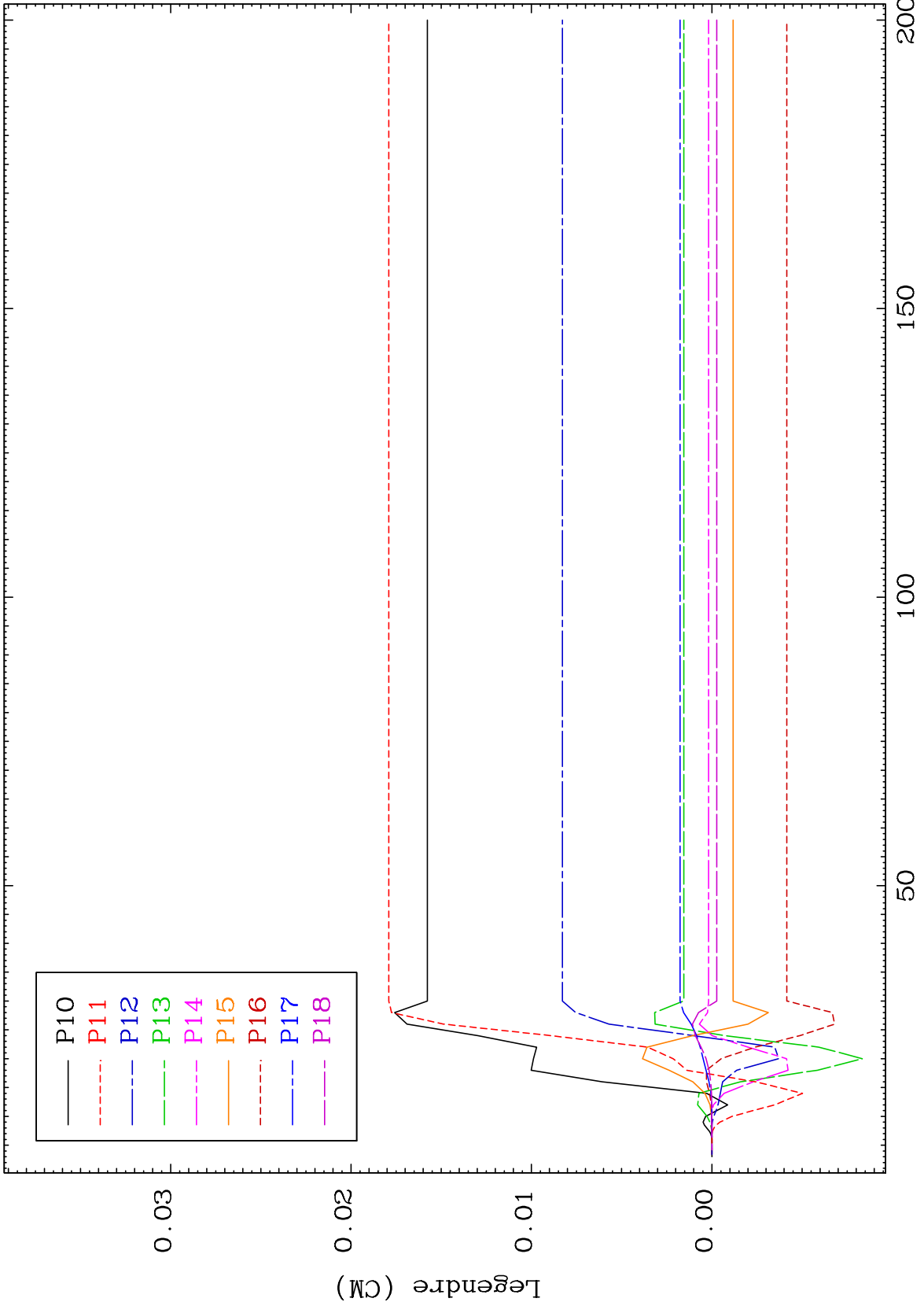
MAT 5840 MT= 80 (n,n') Level Legendre Coefficients

58-Ce-141

58-Ce-141

Incident Energy (MeV)

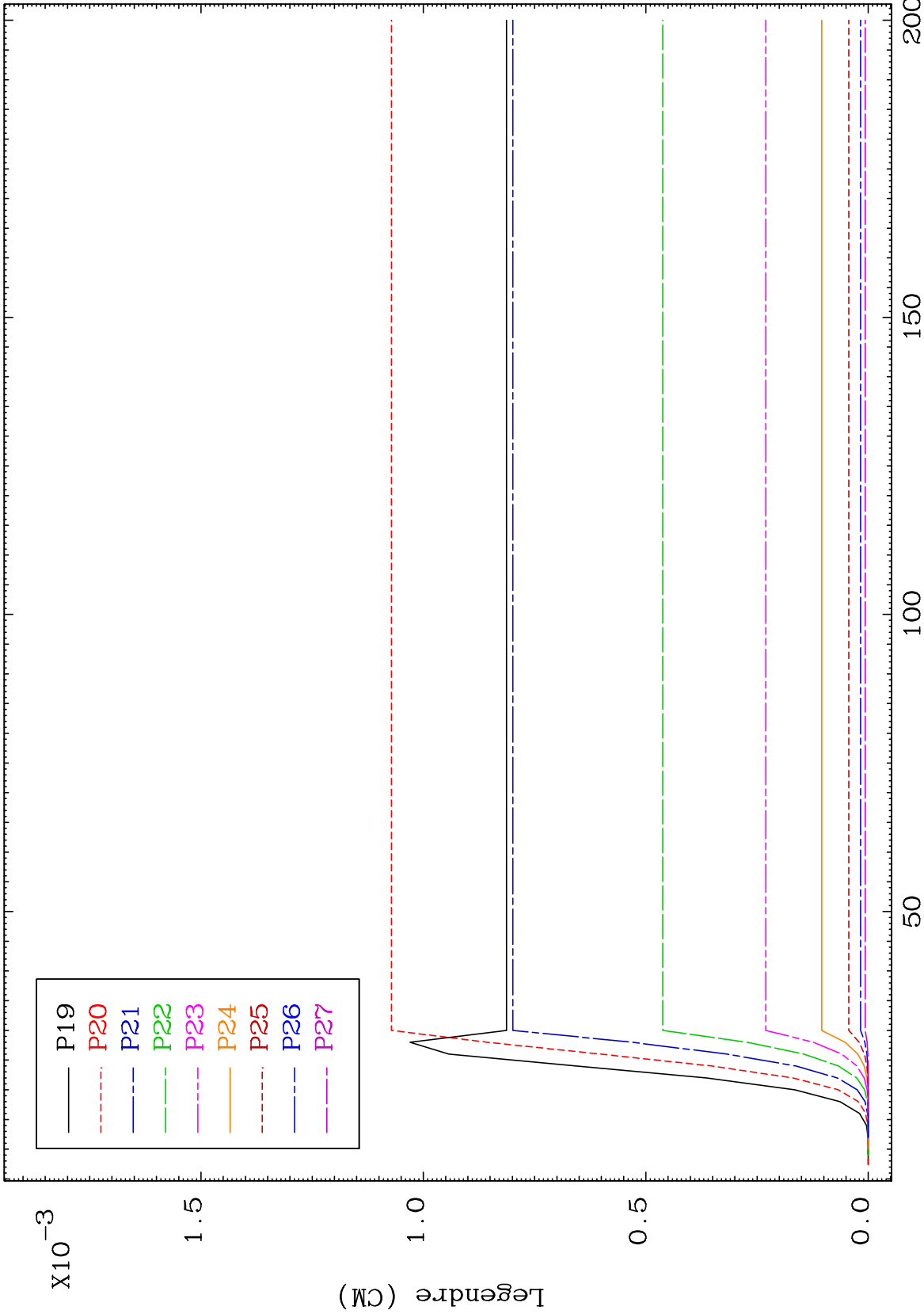
135



MAT 5840

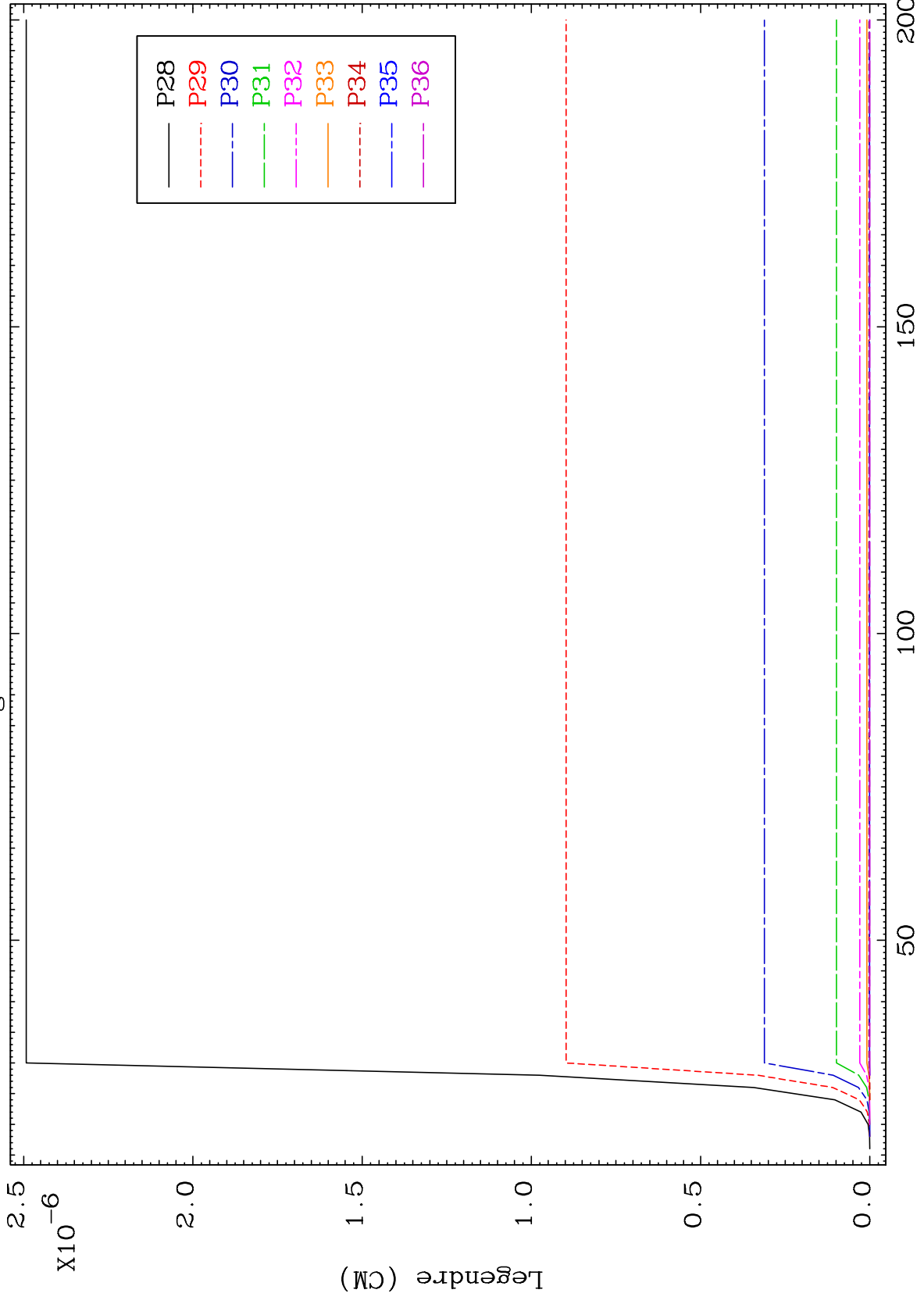
MT= 80 (n,n') Level
Legendre Coefficients

58-Ce-141



136

MAT 5840 MT= 80 (n,n') Level Legendre Coefficients 58-Ce-141

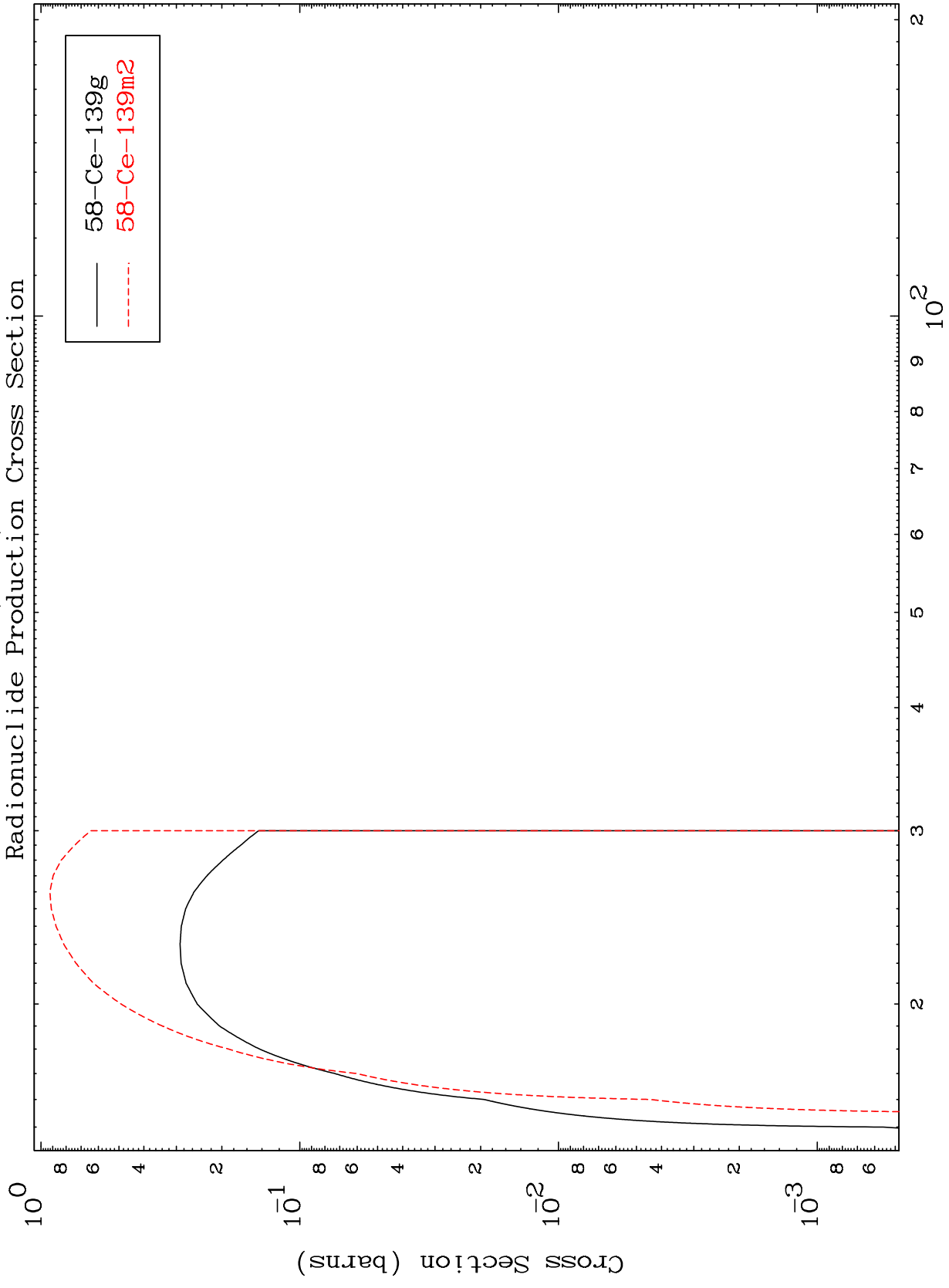


137 58-Ce-141

MAT 5840

58-Ce-141

(n,3n)
Radionuclide Production Cross Section



138

Incident Energy (MeV)

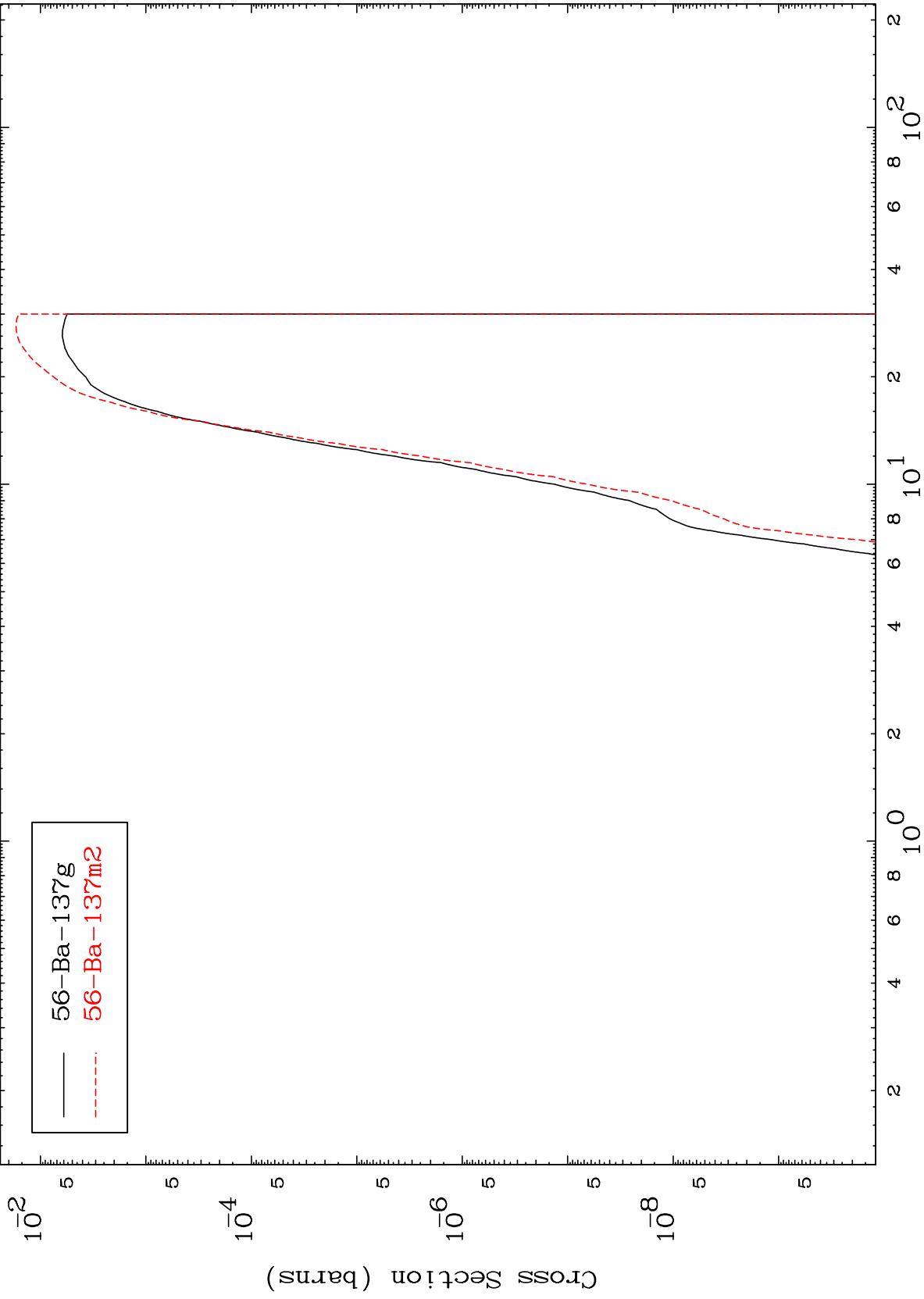
58-Ce-141

MAT 5840

(n,n') α

58-Ce-141

Radionuclide Production Cross Section



139

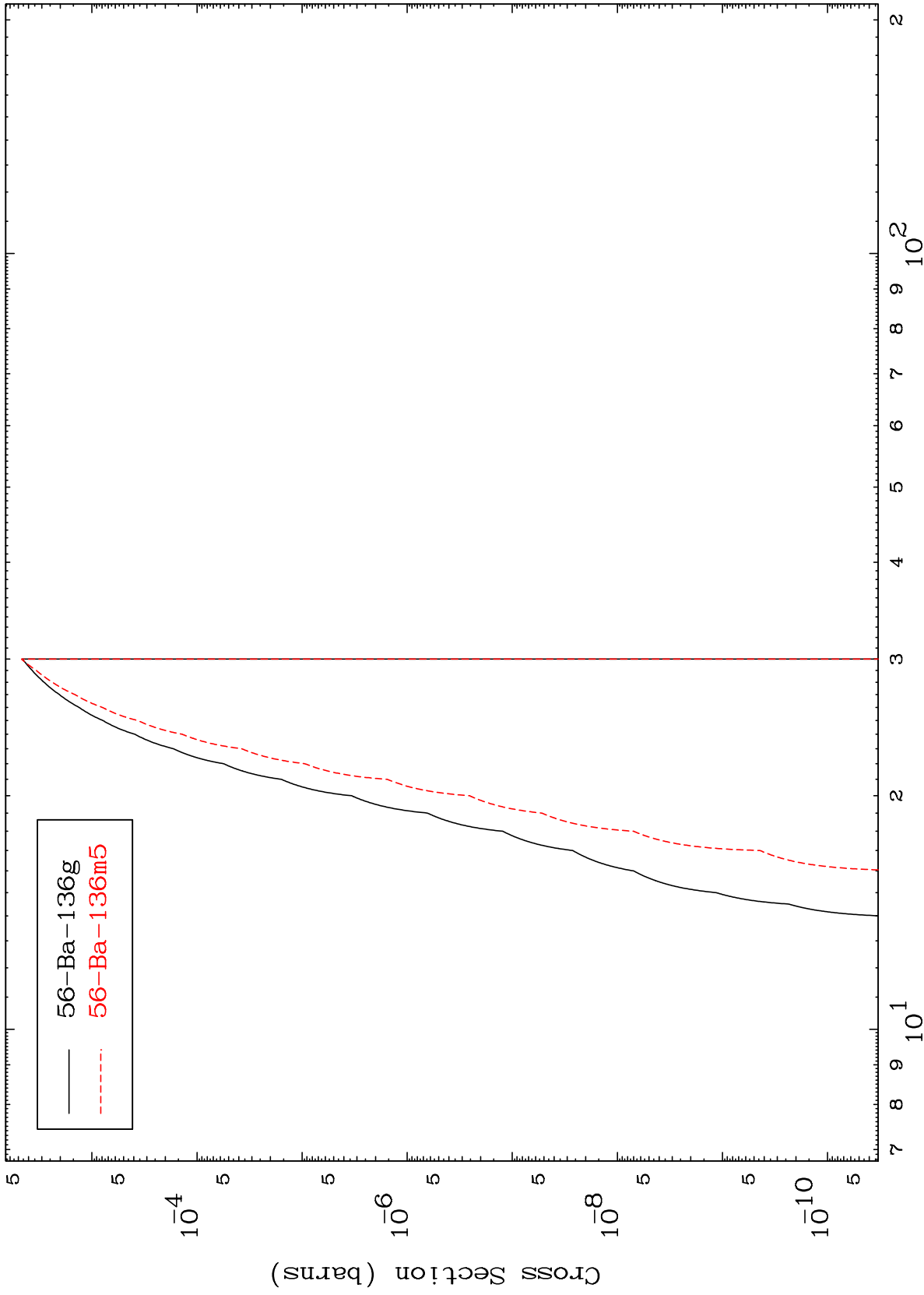
58-Ce-141

MAT 5840

(n,2n) α

58-Ce-141

Radionuclide Production Cross Section



140

Incident Energy (MeV)

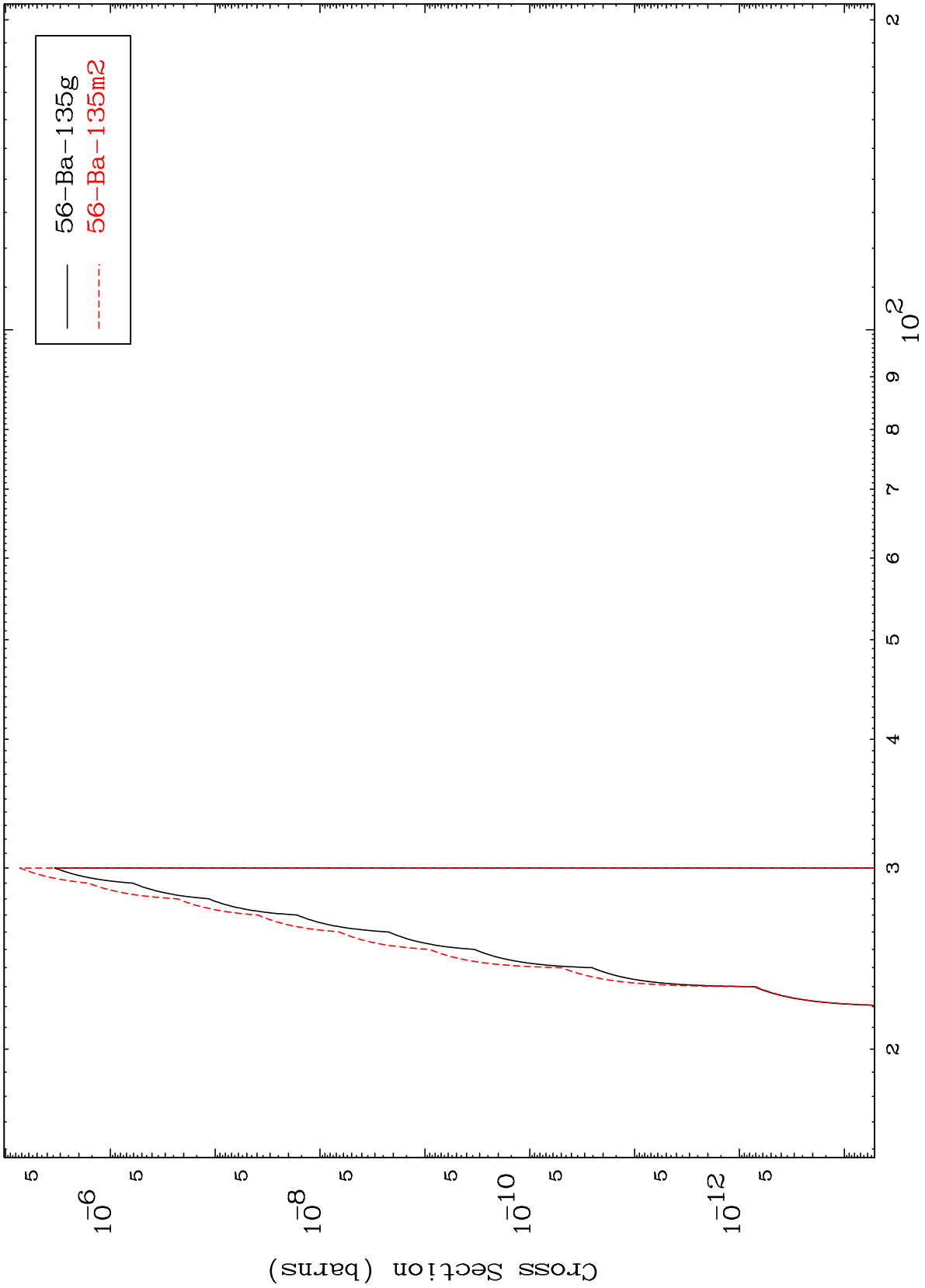
58-Ce-141

MAT 5840

(n,3n) α

58-Ce-141

Radionuclide Production Cross Section



141

Incident Energy (MeV)

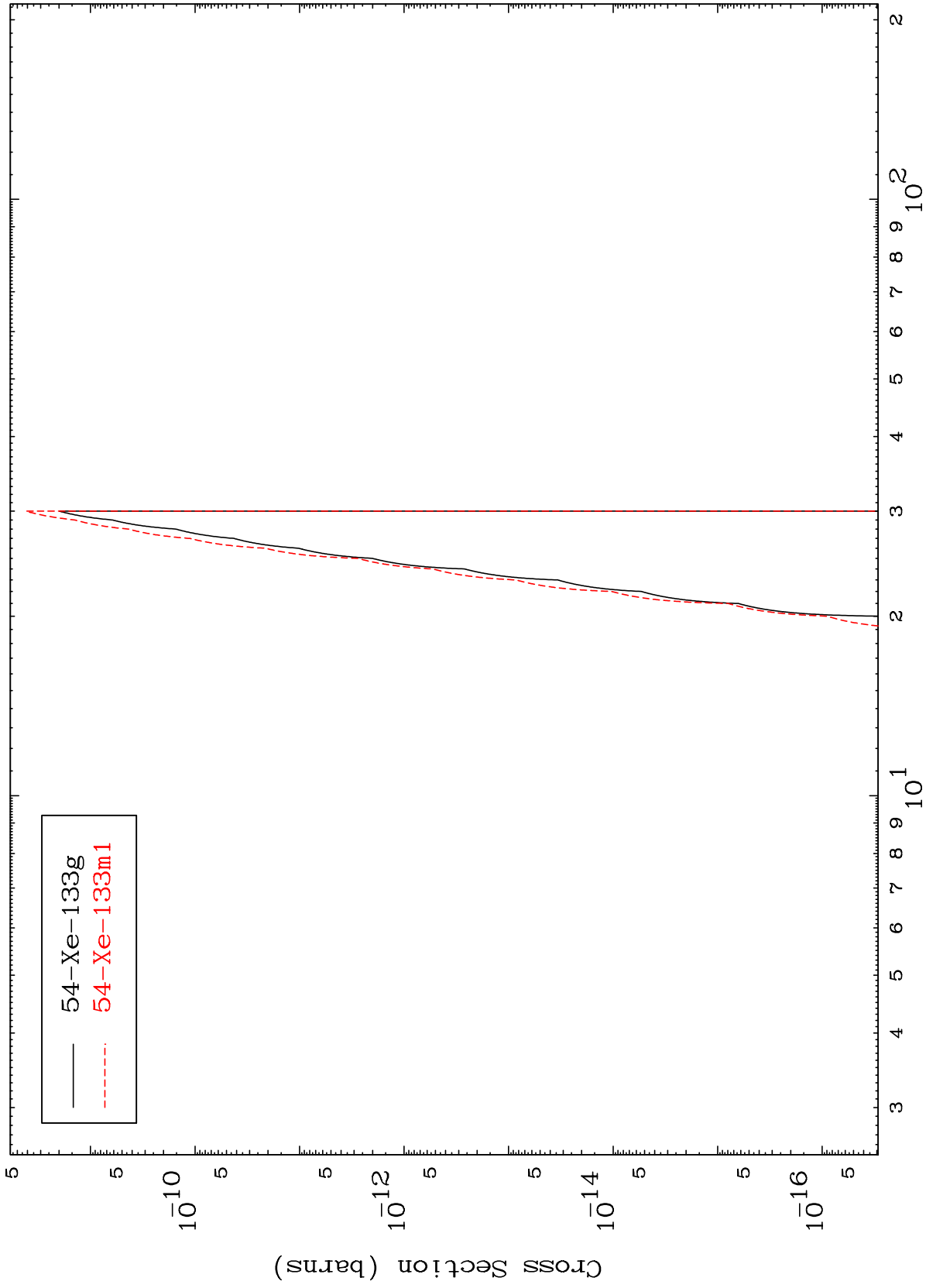
58-Ce-141

MAT 5840

(n,n') 2α

58-Ce-141

Radionuclide Production Cross Section



142

Incident Energy (MeV)

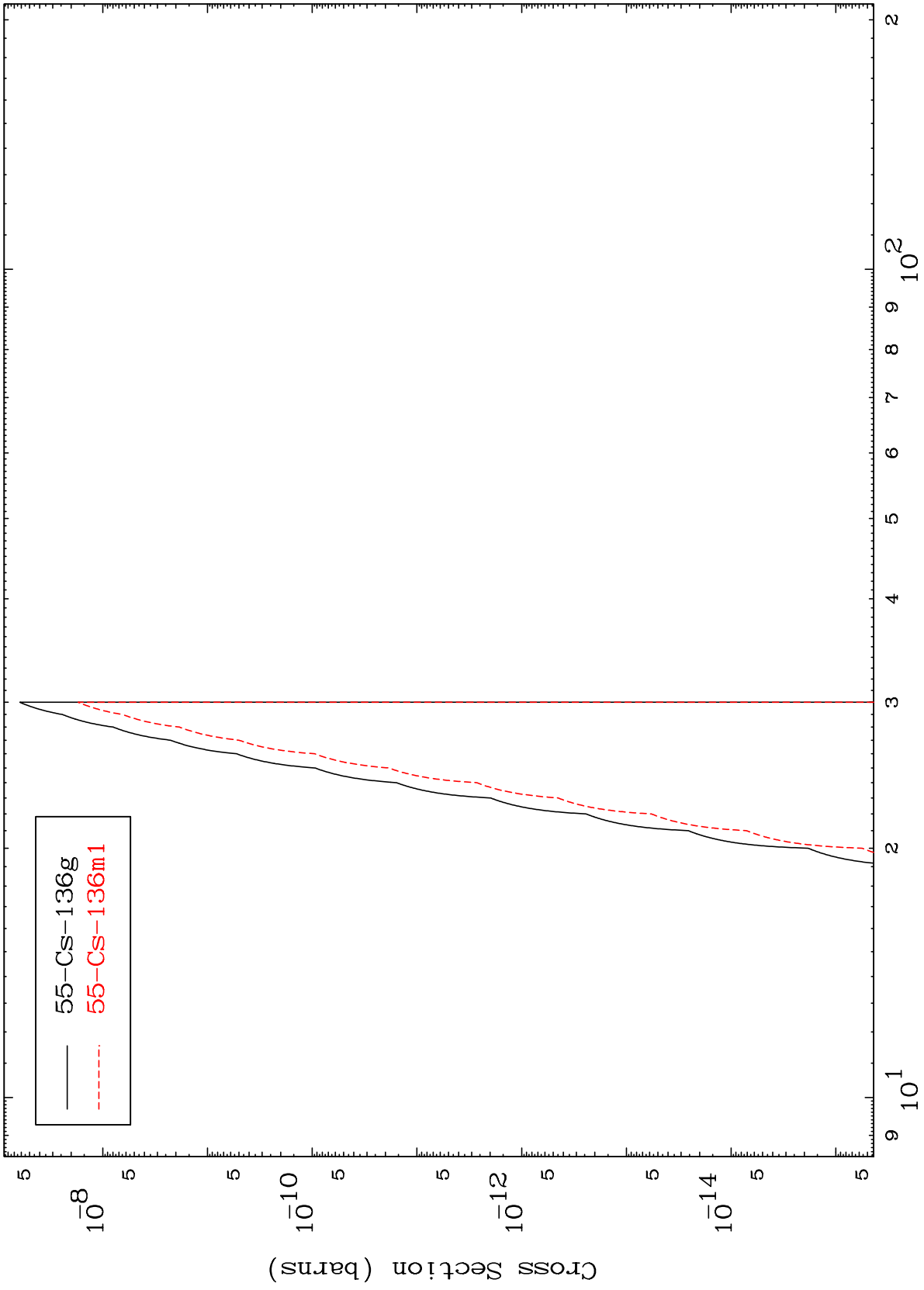
58-Ce-141

MAT 5840

(n,n') p α

58-Ce-141

Radionuclide Production Cross Section



143

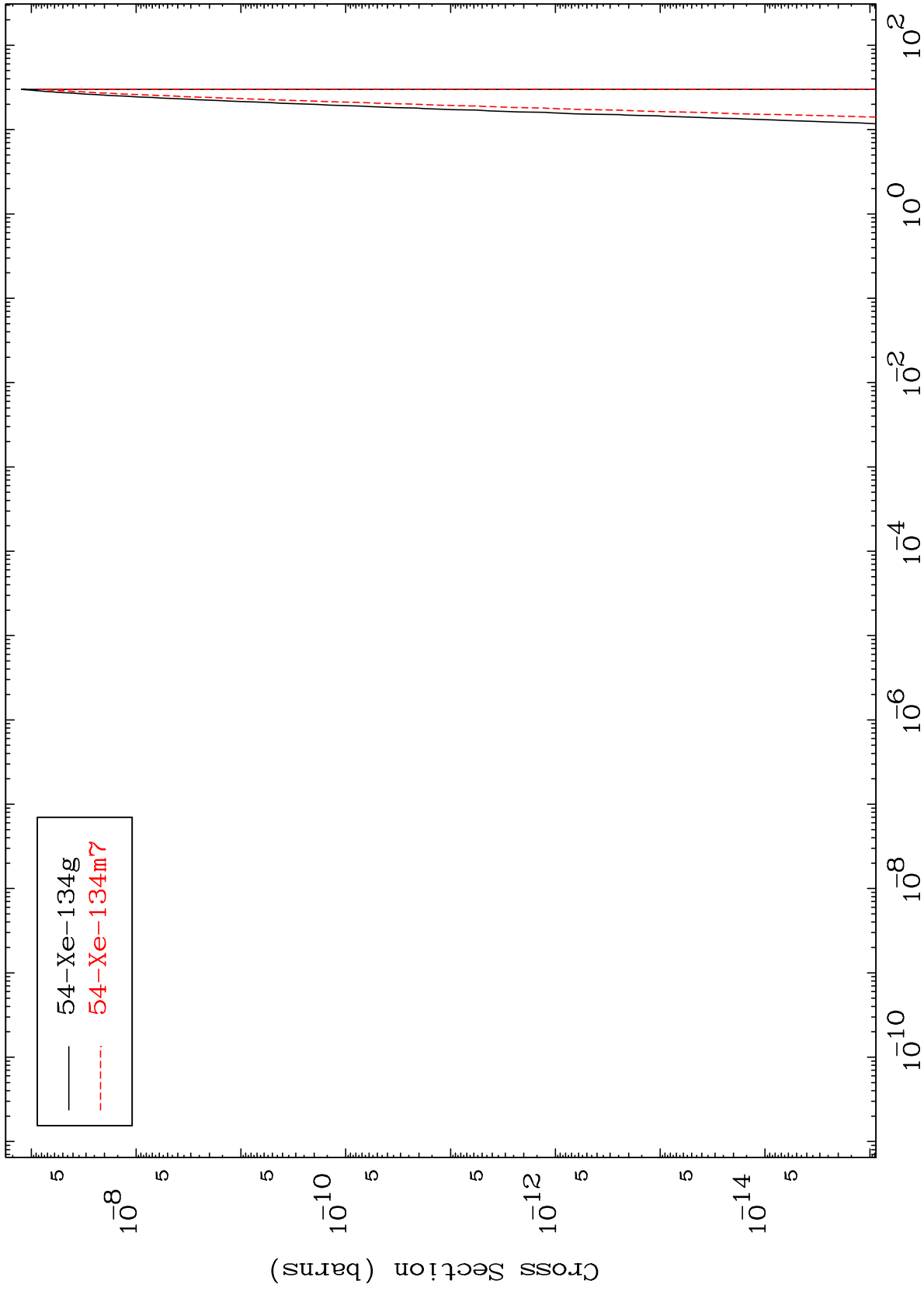
58-Ce-141

MAT 5840

(n,2α)

58-Ce-141

Radionuclide Production Cross Section



144

Incident Energy (MeV)

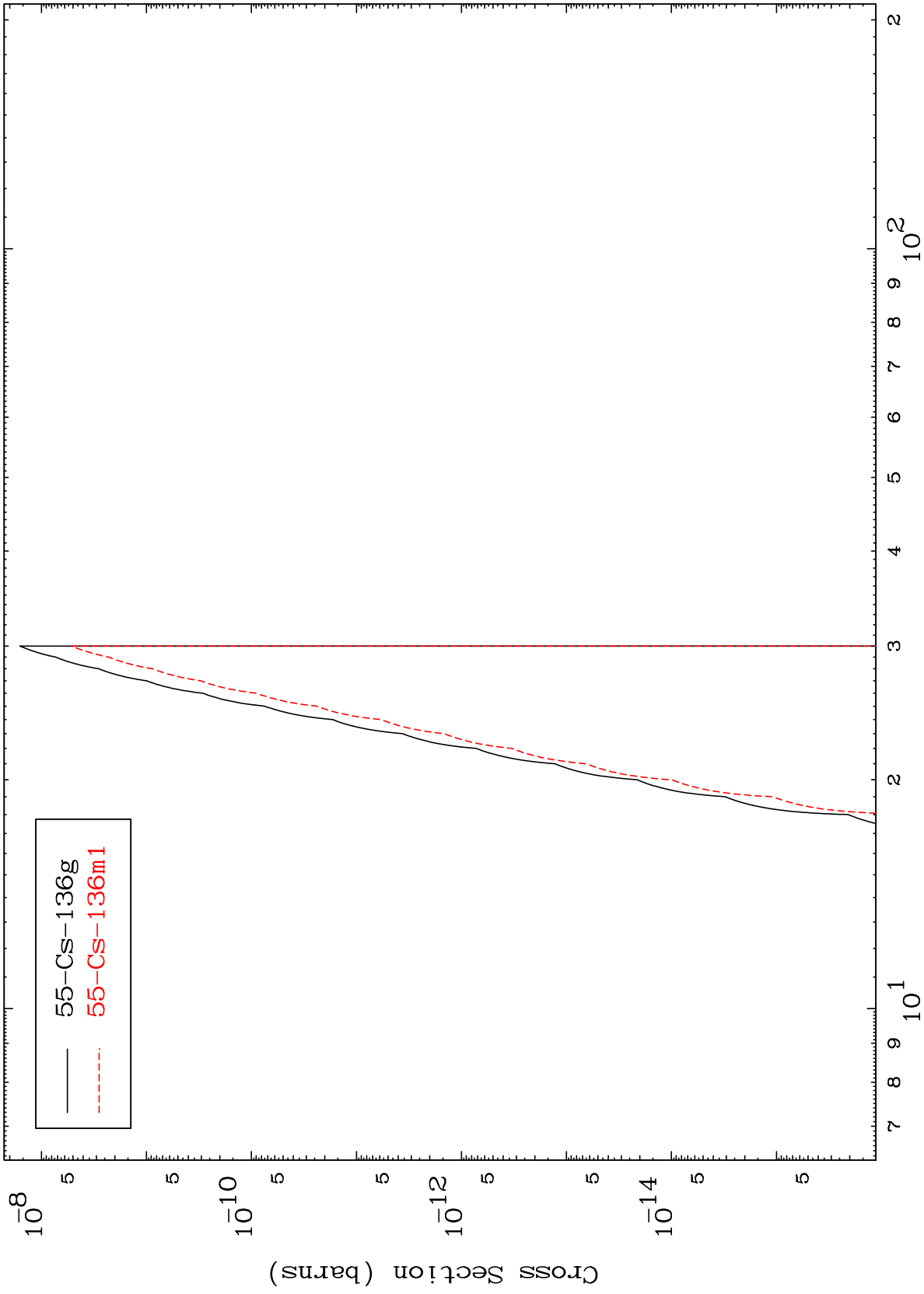
58-Ce-141

MAT 5840

(n,d) α

58-Ce-141

Radionuclide Production Cross Section



55-Cs-136g
55-Cs-136m1

145

Incident Energy (MeV)

58-Ce-141